

WED OCT 13 **LIVE**

7:00 PM PT/10:00PM ET

ISAAC ARTHUR

The Physics of a Tic Tac

F2B

with Jimmy Church



1
00:03:43,110 --> 00:03:40,630

[Music]

2
00:03:46,070 --> 00:03:43,120

[Applause]

3
00:03:48,949 --> 00:03:46,080
the smoke radio for the masses headline

4
00:03:50,869 --> 00:03:48,959
edition july 8 1947

5
00:03:53,350 --> 00:03:50,879
the army air forces has announced that a

6
00:03:55,030 --> 00:03:53,360
flying disc has been found and is now in

7
00:03:57,750 --> 00:03:55,040
the possession of the army

8
00:03:59,670 --> 00:03:57,760
if the game is rigged change the game

9
00:04:02,550 --> 00:03:59,680
game changer

10
00:04:04,869 --> 00:04:02,560
i occasionally think how quickly

11
00:04:06,229 --> 00:04:04,879
our differences worldwide

12
00:04:08,949 --> 00:04:06,239
would vanish

13
00:04:15,110 --> 00:04:08,959

if we were facing an alien threat from

14

00:04:20,550 --> 00:04:17,909

this is fade to black with your host

15

00:04:27,430 --> 00:04:20,560

jimmy church on the game changer radio

16

00:04:32,740 --> 00:04:29,590

i need alliance help to get to the year

17

00:04:38,469 --> 00:04:36,469

[Music]

18

00:04:48,070 --> 00:04:38,479

you're listening to fate to black with

19

00:04:53,110 --> 00:04:51,189

good evening fade to black

20

00:04:54,629 --> 00:04:53,120

bespoke radio

21

00:05:00,780 --> 00:04:54,639

for

22

00:05:05,189 --> 00:05:03,350

[Music]

23

00:05:06,150 --> 00:05:05,199

how you doing today is wednesday october

24

00:05:08,070 --> 00:05:06,160

13

25

00:05:11,909 --> 00:05:08,080

2021

26
00:05:13,790 --> 00:05:11,919
285 days into the new year only 80 days

27
00:05:17,200 --> 00:05:13,800
left

28
00:05:17,510 --> 00:05:17,210
[Music]

29
00:05:19,670 --> 00:05:17,520
[Applause]

30
00:05:21,270 --> 00:05:19,680
[Music]

31
00:05:24,550 --> 00:05:21,280
we are live from a bunker somewhere in

32
00:05:28,310 --> 00:05:24,560
the middle of nowhere

33
00:05:32,230 --> 00:05:28,320
a total undisclosed location but it is

34
00:05:33,590 --> 00:05:32,240
beautiful it is it truly is

35
00:05:35,430 --> 00:05:33,600
i would like to welcome everybody

36
00:05:38,710 --> 00:05:35,440
listening all around the world all

37
00:05:40,870 --> 00:05:38,720
across the united states hither and

38
00:05:43,510 --> 00:05:40,880

tether to and fro back and forth up and

39

00:05:45,590 --> 00:05:43,520

down east and west north and south far

40

00:05:48,230 --> 00:05:45,600

and near

41

00:05:49,830 --> 00:05:48,240

this is fade to black for kjcr the game

42

00:05:51,110 --> 00:05:49,840

changer network

43

00:05:53,430 --> 00:05:51,120

and

44

00:05:55,350 --> 00:05:53,440

on x

45

00:05:58,550 --> 00:05:55,360

the nx network

46

00:06:00,629 --> 00:05:58,560

kicking things off october 31st racehobs

47

00:06:03,350 --> 00:06:00,639

i am your host jimmy church what is

48

00:06:05,189 --> 00:06:03,360

cracking everybody how you doing

49

00:06:07,909 --> 00:06:05,199

what a great week on the show and

50

00:06:09,140 --> 00:06:07,919

tonight very special guest

51
00:06:10,390 --> 00:06:09,150
isaac arthur

52
00:06:13,430 --> 00:06:10,400
[Music]

53
00:06:16,390 --> 00:06:13,440
right here isaac arthur is back with us

54
00:06:20,390 --> 00:06:16,400
to discuss

55
00:06:22,230 --> 00:06:20,400
the physics of a tic tac

56
00:06:23,670 --> 00:06:22,240
yeah man

57
00:06:27,270 --> 00:06:23,680
and tomorrow night's another fader

58
00:06:29,430 --> 00:06:27,280
tonight with open lines all night long

59
00:06:30,950 --> 00:06:29,440
and then i'm gonna give everybody an

60
00:06:33,110 --> 00:06:30,960
update

61
00:06:34,469 --> 00:06:33,120
uh i'm gonna have a couple hours of

62
00:06:36,629 --> 00:06:34,479
sleep

63
00:06:39,670 --> 00:06:36,639

and then i jump on a plane

64

00:06:42,710 --> 00:06:39,680

i'm headed out of town

65

00:06:44,710 --> 00:06:42,720

secret mission i'll be back sunday night

66

00:06:47,670 --> 00:06:44,720

but uh

67

00:06:49,350 --> 00:06:47,680

yeah i wish i could tell you more but i

68

00:06:52,469 --> 00:06:49,360

can't

69

00:06:54,309 --> 00:06:52,479

but that's what i gotta do man man man

70

00:06:56,309 --> 00:06:54,319

wrap the show

71

00:07:00,070 --> 00:06:56,319

ten o'clock

72

00:07:01,510 --> 00:07:00,080

grab a little bitey bite some food

73

00:07:02,870 --> 00:07:01,520

head to bed for a couple hours got to

74

00:07:05,670 --> 00:07:02,880

get up bright and early head straight to

75

00:07:07,909 --> 00:07:05,680

the airport and uh there you go

76

00:07:10,309 --> 00:07:07,919

love it though

77

00:07:13,350 --> 00:07:10,319

love it trying to slow down time with

78

00:07:18,710 --> 00:07:13,360

doing lots of things

79

00:07:20,070 --> 00:07:18,720

yeah man all right oh where am i at

80

00:07:22,309 --> 00:07:20,080

right now

81

00:07:24,150 --> 00:07:22,319

so excited isaac arthur is with us i'm

82

00:07:28,230 --> 00:07:24,160

gonna talk more about isaac in in just a

83

00:07:29,670 --> 00:07:28,240

bit but uh isaac arthur is here and and

84

00:07:31,589 --> 00:07:29,680

this is the thing

85

00:07:34,150 --> 00:07:31,599

i can't wait until isaac gets on the

86

00:07:36,550 --> 00:07:34,160

show normally normally i do a sound

87

00:07:40,710 --> 00:07:36,560

check sound check happens every single

88

00:07:44,469 --> 00:07:40,720

night at 6 30. i have missed

89
00:07:45,990 --> 00:07:44,479
uh maybe a dozen or so sound checks over

90
00:07:47,749 --> 00:07:46,000
the years

91
00:07:48,950 --> 00:07:47,759
we've uh you know put a lot of shows

92
00:07:49,990 --> 00:07:48,960
into the cat

93
00:07:54,869 --> 00:07:50,000
and

94
00:07:56,869 --> 00:07:54,879
soundcheck doesn't happen tonight it

95
00:08:00,070 --> 00:07:56,879
didn't happen with isaac

96
00:08:02,309 --> 00:08:00,080
and i'm waiting i've got texts going on

97
00:08:03,909 --> 00:08:02,319
i know what isaac is doing

98
00:08:05,749 --> 00:08:03,919
he's taking a nap

99
00:08:07,350 --> 00:08:05,759
and he's going to get up he's going to

100
00:08:10,150 --> 00:08:07,360
brew some coffee he's going to sit down

101
00:08:12,150 --> 00:08:10,160
he's going to be ready to go but i won't

102
00:08:13,510 --> 00:08:12,160
know anything

103
00:08:15,270 --> 00:08:13,520
until

104
00:08:18,710 --> 00:08:15,280
7 30.

105
00:08:20,629 --> 00:08:18,720
and right now i'm looking and i've got

106
00:08:23,350 --> 00:08:20,639
no return text

107
00:08:24,390 --> 00:08:23,360
it's always a nerve-wracking thing

108
00:08:27,350 --> 00:08:24,400
and

109
00:08:30,070 --> 00:08:27,360
there's a few guys that have done um uh

110
00:08:32,389 --> 00:08:30,080
david ike no sound checks ever you know

111
00:08:34,070 --> 00:08:32,399
he's over in england uh that's one

112
00:08:36,070 --> 00:08:34,080
example think of all those shows with

113
00:08:38,630 --> 00:08:36,080

david ike and it's just

114

00:08:40,310 --> 00:08:38,640

one minute before show time

115

00:08:41,110 --> 00:08:40,320

i'll get it text okay man i'm ready to

116

00:08:44,710 --> 00:08:41,120

go

117

00:08:47,350 --> 00:08:44,720

uh but anyway uh grant cameron same

118

00:08:49,829 --> 00:08:47,360

thing same thing over the years grant

119

00:08:51,910 --> 00:08:49,839

nope no sound checks it's just

120

00:08:54,710 --> 00:08:51,920

a minute before show time i'll get a

121

00:08:55,509 --> 00:08:54,720

text uh okay man ready to go and i can

122

00:08:57,829 --> 00:08:55,519

go

123

00:09:00,230 --> 00:08:57,839

but i don't know what the audio's like i

124

00:09:03,110 --> 00:09:00,240

you know that's why you do sound checks

125

00:09:05,350 --> 00:09:03,120

um uh isaac total professional he's got

126

00:09:06,389 --> 00:09:05,360

his show science and futurism

127

00:09:14,070 --> 00:09:06,399

and

128

00:09:16,630 --> 00:09:14,080

no sound check tonight with isaac

129

00:09:19,350 --> 00:09:16,640

so there you go okay all right

130

00:09:21,350 --> 00:09:19,360

so i'm waiting i've got

131

00:09:23,990 --> 00:09:21,360

uh

132

00:09:30,790 --> 00:09:25,990

i'm waiting

133

00:09:32,389 --> 00:09:30,800

this is the best birthday gift i mean uh

134

00:09:34,389 --> 00:09:32,399

all of my birthday gifts were great this

135

00:09:37,910 --> 00:09:34,399

year but but this one

136

00:09:40,150 --> 00:09:37,920

that one's personal okay so phone is

137

00:09:42,310 --> 00:09:40,160

right here i've got this really cool

138

00:09:44,150 --> 00:09:42,320

phone stand

139

00:09:44,949 --> 00:09:44,160

is what it looks like you know and it

140

00:09:49,430 --> 00:09:44,959

just

141

00:09:50,389 --> 00:09:49,440

staring at me in the face

142

00:09:53,269 --> 00:09:50,399

right here

143

00:09:57,110 --> 00:09:53,279

okay so let's wait for isaac i will be

144

00:09:59,110 --> 00:09:57,120

at the star works usa ufos all the above

145

00:10:00,550 --> 00:09:59,120

and beyond conference this november 12th

146

00:10:04,069 --> 00:10:00,560

through the 14th

147

00:10:07,110 --> 00:10:04,079

in laughlin nevada at the absolutely

148

00:10:10,310 --> 00:10:07,120

fabulous aquarius hotel and casino

149

00:10:12,470 --> 00:10:10,320

and uh that is uh kicking off like i

150

00:10:14,389 --> 00:10:12,480

said november 12th through the 14th

151
00:10:15,829 --> 00:10:14,399
and uh jacques valet paul heineck who

152
00:10:18,790 --> 00:10:15,839
was on the show with us last night grant

153
00:10:21,509 --> 00:10:18,800
cameron colin andrews jaimie moussan

154
00:10:24,389 --> 00:10:21,519
and ten other amazing speakers tickets

155
00:10:26,470 --> 00:10:24,399
and info at starworksusa.com

156
00:10:27,750 --> 00:10:26,480
and uh the links are everywhere for us

157
00:10:30,310 --> 00:10:27,760
throughout social media you can go and

158
00:10:32,230 --> 00:10:30,320
click but uh starworks usa.com also the

159
00:10:34,310 --> 00:10:32,240
link is in the video description box

160
00:10:35,110 --> 00:10:34,320
below head over get your tickets and

161
00:10:40,389 --> 00:10:35,120
info

162
00:10:46,630 --> 00:10:43,590
fade to black live on stage

163
00:10:49,110 --> 00:10:46,640

i got a few a few ideas uh for this too

164

00:10:51,190 --> 00:10:49,120

it's gonna be really really cool so

165

00:10:54,470 --> 00:10:51,200

tickets and info

166

00:10:58,829 --> 00:10:56,630

all right head over get that follow me

167

00:11:06,630 --> 00:10:58,839

on twitter at

168

00:11:06,640 --> 00:11:09,750

rivermoonwellness.com

169

00:11:16,069 --> 00:11:12,389

yeah follow me on twitter at j

170

00:11:17,110 --> 00:11:16,079

church radio the sandbox is hashtag f2b

171

00:11:18,470 --> 00:11:17,120

on twitter

172

00:11:20,870 --> 00:11:18,480

and uh

173

00:11:22,150 --> 00:11:20,880

chat rooms are open of course over at

174

00:11:25,190 --> 00:11:22,160

spreaker

175

00:11:26,870 --> 00:11:25,200

and over on youtube as well and facebook

176

00:11:28,710 --> 00:11:26,880

hello to everybody that's out there

177

00:11:31,750 --> 00:11:28,720

whether you're listening

178

00:11:33,750 --> 00:11:31,760

or you're watching whatever you're doing

179

00:11:34,790 --> 00:11:33,760

how are you guys what's going on all

180

00:11:39,269 --> 00:11:34,800

right

181

00:11:41,350 --> 00:11:39,279

let's see what is kraken i'm very um

182

00:11:42,550 --> 00:11:41,360

excited about onex and the unaxed

183

00:11:48,949 --> 00:11:42,560

network

184

00:11:51,670 --> 00:11:48,959

uh the site is active it will be updated

185

00:11:53,829 --> 00:11:51,680

and flying here with with all of the

186

00:11:56,230 --> 00:11:53,839

exciting new programming uh that is

187

00:11:57,750 --> 00:11:56,240

going to be over at the nx network am i

188

00:12:03,590 --> 00:11:57,760

writing low

189

00:12:05,190 --> 00:12:03,600

it looks like i'm low

190

00:12:06,710 --> 00:12:05,200

let me see

191

00:12:10,069 --> 00:12:06,720

is that better

192

00:12:14,470 --> 00:12:10,079

let me see i'm gonna see is it my chair

193

00:12:18,790 --> 00:12:17,590

what's up it's a fade to black

194

00:12:21,829 --> 00:12:18,800

what's up

195

00:12:23,710 --> 00:12:21,839

fade to block so uh let's see i've just

196

00:12:26,550 --> 00:12:23,720

raised that up

197

00:12:27,670 --> 00:12:26,560

[Laughter]

198

00:12:31,350 --> 00:12:27,680

i love it

199

00:12:33,509 --> 00:12:31,360

let's get to the breaking news william

200

00:12:36,150 --> 00:12:33,519

shatner can now say

201

00:12:39,350 --> 00:12:36,160

he's gone boldly

202

00:12:40,790 --> 00:12:39,360

where no man his age has gone before

203

00:12:44,310 --> 00:12:40,800

he's certainly not the first person to

204

00:12:47,110 --> 00:12:44,320

visit space but as of today the star

205

00:12:49,590 --> 00:12:47,120

trek captain is the oldest at 90 years

206

00:12:52,629 --> 00:12:49,600

old the actor joined blue origin

207

00:12:56,150 --> 00:12:52,639

founded by amazon founder jeff bezos in

208

00:12:58,790 --> 00:12:56,160

2004 second human space flight

209

00:13:00,790 --> 00:12:58,800

that's right bill and three others were

210

00:13:02,790 --> 00:13:00,800

launched in a new shepard rocket from

211

00:13:06,870 --> 00:13:02,800

the aerospace company's west texas

212

00:13:08,550 --> 00:13:06,880

launch site just before 11 a.m eastern

213

00:13:10,870 --> 00:13:08,560

daylight time and

214

00:13:12,710 --> 00:13:10,880

a couple of delays right couple of can

215

00:13:16,310 --> 00:13:12,720

you imagine sitting on a rocket like

216

00:13:17,990 --> 00:13:16,320

that and getting one delay after another

217

00:13:20,470 --> 00:13:18,000

right oh my god

218

00:13:22,710 --> 00:13:20,480

but everything was cool the crew safely

219

00:13:25,269 --> 00:13:22,720

landed back on earth uh

220

00:13:27,670 --> 00:13:25,279

11 minutes later when shatner could be

221

00:13:29,990 --> 00:13:27,680

heard saying the experience was unlike

222

00:13:32,550 --> 00:13:30,000

anything they described all four

223

00:13:34,790 --> 00:13:32,560

passengers on board gave a thumbs up to

224

00:13:37,190 --> 00:13:34,800

the recovery crew upon landing to

225

00:13:39,110 --> 00:13:37,200

indicate that they were okay and then

226

00:13:42,230 --> 00:13:39,120

bezos shows up gave everybody their

227

00:13:44,310 --> 00:13:42,240

wings you get you get those bezos wings

228

00:13:45,750 --> 00:13:44,320

uh when you land i would love i would

229

00:13:47,670 --> 00:13:45,760

love to do that

230

00:13:51,750 --> 00:13:47,680

i mean it's way

231

00:13:56,470 --> 00:13:51,760

out of my tax bracket but uh okay

232

00:14:01,269 --> 00:13:59,110

all right um hold on for a second let me

233

00:14:03,670 --> 00:14:01,279

let me text him back

234

00:14:04,870 --> 00:14:03,680

uh

235

00:14:07,910 --> 00:14:04,880

be

236

00:14:10,310 --> 00:14:07,920

ready to go

237

00:14:12,389 --> 00:14:10,320

i'm

238

00:14:14,829 --> 00:14:12,399

on the air

239

00:14:18,150 --> 00:14:14,839

right now and

240

00:14:20,310 --> 00:14:18,160

everybody can hear

241

00:14:22,069 --> 00:14:20,320

me

242

00:14:38,069 --> 00:14:22,079

texting

243

00:14:42,310 --> 00:14:40,069

yeah

244

00:14:43,350 --> 00:14:42,320

isaac arthur see i told you didn't i

245

00:14:44,949 --> 00:14:43,360

tell you

246

00:14:50,230 --> 00:14:44,959

watch uh

247

00:14:55,110 --> 00:14:52,790

oh man okay

248

00:14:57,350 --> 00:14:55,120

where i'm at a canadian woman

249

00:14:59,750 --> 00:14:57,360

narrowly avoided disaster when a

250

00:15:02,150 --> 00:14:59,760

meteorite crashed through her roof and

251
00:15:05,590 --> 00:15:02,160
landed on the pillow next to her as she

252
00:15:07,910 --> 00:15:05,600
slept the photographs the images of what

253
00:15:12,310 --> 00:15:07,920
happened in the size of this meteorite

254
00:15:14,710 --> 00:15:12,320
are absolutely nuts things this big ruth

255
00:15:16,550 --> 00:15:14,720
hamilton of golden british columbia woke

256
00:15:21,269 --> 00:15:16,560
up to the sound of a crash and dust on

257
00:15:23,910 --> 00:15:21,279
her face sunday october 3rd at 11 50 pm

258
00:15:27,110 --> 00:15:23,920
when she looked down she saw a rock on

259
00:15:29,749 --> 00:15:27,120
her pillow right next to where her head

260
00:15:31,749 --> 00:15:29,759
usually lies her insurance company plans

261
00:15:34,069 --> 00:15:31,759
to conduct a walk through

262
00:15:37,829 --> 00:15:34,079
and determine whether burning space

263
00:15:39,829 --> 00:15:37,839

matter is covered under her policy

264

00:15:42,790 --> 00:15:39,839

i'm not making that up the company said

265

00:15:44,150 --> 00:15:42,800

they've never handled a claim like this

266

00:15:46,629 --> 00:15:44,160

before

267

00:15:49,350 --> 00:15:46,639

the images are absolutely crazy let's

268

00:15:52,629 --> 00:15:49,360

get this show cracking happy birthday to

269

00:15:54,550 --> 00:15:52,639

today the one and only

270

00:15:58,310 --> 00:15:54,560

sasha baron cohen

271

00:16:01,910 --> 00:15:58,320

today 49 years old now i'm gonna say

272

00:16:05,509 --> 00:16:01,920

this yeah yeah borat ali g i'm not even

273

00:16:06,949 --> 00:16:05,519

sure i'm more of an ollie g guy but

274

00:16:08,389 --> 00:16:06,959

madagascar

275

00:16:09,350 --> 00:16:08,399

julian

276

00:16:12,150 --> 00:16:09,360

right

277

00:16:13,430 --> 00:16:12,160

stole the show happy birthday sasha paul

278

00:16:14,710 --> 00:16:13,440

simon

279

00:16:17,749 --> 00:16:14,720

today

280

00:16:20,470 --> 00:16:17,759

is 79 kodachrome i'm just going there

281

00:16:23,590 --> 00:16:20,480

going there kodachrome marie osmond

282

00:16:25,350 --> 00:16:23,600

today is 61. and i didn't realize that

283

00:16:26,790 --> 00:16:25,360

she was three years older than me

284

00:16:29,189 --> 00:16:26,800

because when i go back to the osmond

285

00:16:32,310 --> 00:16:29,199

brothers show right and they brought her

286

00:16:34,470 --> 00:16:32,320

out on stage i thought man i thought we

287

00:16:39,110 --> 00:16:34,480

were like the same age like two

288

00:16:41,990 --> 00:16:39,120

but uh she's 61 today chicago's robert

289

00:16:46,069 --> 00:16:42,000

lamb the one and only

290

00:16:49,829 --> 00:16:46,079

is 77 years old and thrax front man joey

291

00:16:51,430 --> 00:16:49,839

belladonna today is 61. saving the best

292

00:16:53,189 --> 00:16:51,440

for last though

293

00:16:54,710 --> 00:16:53,199

sammy hagar

294

00:16:57,990 --> 00:16:54,720

today

295

00:17:00,230 --> 00:16:58,000

is 74. he ain't slowing down david lee

296

00:17:02,949 --> 00:17:00,240

roth just announced his retirement he's

297

00:17:05,429 --> 00:17:02,959

hanging up his shoes and uh

298

00:17:09,590 --> 00:17:05,439

kind of surprised about that

299

00:17:12,710 --> 00:17:09,600

but not sammy sammy is 74. our dead

300

00:17:14,750 --> 00:17:12,720

guy's birthday today is

301

00:17:19,350 --> 00:17:14,760

kelly preston

302

00:17:21,510 --> 00:17:19,360

1962 to 2020 died at the age of 77

303

00:17:23,750 --> 00:17:21,520

surprised and shocked all of us

304

00:17:25,909 --> 00:17:23,760

with her passing kelly was an actress of

305

00:17:28,309 --> 00:17:25,919

course and a model she appeared to more

306

00:17:31,590 --> 00:17:28,319

than 60 television and film productions

307

00:17:33,590 --> 00:17:31,600

including mischief twins jerry maguire

308

00:17:35,430 --> 00:17:33,600

for the love of the game gotti space

309

00:17:37,909 --> 00:17:35,440

camp the cat in the hat

310

00:17:41,510 --> 00:17:37,919

what a girl wants sky high she was great

311

00:17:45,510 --> 00:17:41,520

in sky high and old dogs and she married

312

00:17:48,950 --> 00:17:45,520

uh john travolta back in 1991

313

00:17:52,710 --> 00:17:48,960

on july 12 2020 kelly died at the age of

314

00:17:55,110 --> 00:17:52,720

57 at her home in clearwater florida two

315

00:17:57,990 --> 00:17:55,120

days uh two years after she had been

316

00:18:00,390 --> 00:17:58,000

diagnosed with breast cancer

317

00:18:04,070 --> 00:18:00,400

happy birthday kelly preston

318

00:18:06,789 --> 00:18:04,080

on this day in history oh

319

00:18:07,750 --> 00:18:06,799

oh yeah here it is i got it i got it

320

00:18:09,830 --> 00:18:07,760

uh

321

00:18:13,270 --> 00:18:09,840

four palestinians

322

00:18:15,669 --> 00:18:13,280

hijacked a lufthansa airliner and took

323

00:18:18,950 --> 00:18:15,679

the plane on a six-country odyssey

324

00:18:21,909 --> 00:18:18,960

eventually landing in mogadishu somalia

325

00:18:23,190 --> 00:18:21,919

on october 17th like four days later

326

00:18:26,310 --> 00:18:23,200

right okay

327

00:18:29,029 --> 00:18:26,320

early the next morning this is why

328

00:18:31,750 --> 00:18:29,039

you don't hijack a plane especially

329

00:18:34,390 --> 00:18:31,760

lufthansa because early the next morning

330

00:18:37,990 --> 00:18:34,400

a german special forces team stormed the

331

00:18:42,070 --> 00:18:38,000

aircraft releasing the 86 hostages

332

00:18:43,870 --> 00:18:42,080

and killing three of the four hijackers

333

00:18:46,950 --> 00:18:43,880

on this day in

334

00:18:50,850 --> 00:18:46,960

1977. here's your fader fact this one's

335

00:18:52,470 --> 00:18:50,860

about roy orbison i can't drive 55

336

00:18:55,990 --> 00:18:52,480

[Laughter]

337

00:18:58,630 --> 00:18:56,000

right on dry scale

338

00:19:01,990 --> 00:18:58,640

roy orbison

339

00:19:05,510 --> 00:19:02,000

wrote the biggest hit of his career

340

00:19:08,549 --> 00:19:05,520

after asking his first wife claudette

341

00:19:11,190 --> 00:19:08,559

if she needed cash for the market

342

00:19:13,669 --> 00:19:11,200

his writing partner interjected saying

343

00:19:16,470 --> 00:19:13,679

pretty women don't need money

344

00:19:19,190 --> 00:19:16,480

as orbison watched claudette go to the

345

00:19:20,630 --> 00:19:19,200

market by walking down the street

346

00:19:22,870 --> 00:19:20,640

he wrote

347

00:19:26,470 --> 00:19:22,880

oh pretty woman

348

00:19:29,510 --> 00:19:26,480

and that is your fader fact tonight very

349

00:19:31,110 --> 00:19:29,520

special guest isaac arthur is here we're

350

00:19:32,870 --> 00:19:31,120

going to be discussing

351
00:19:35,029 --> 00:19:32,880
the physics

352
00:19:35,909 --> 00:19:35,039
of a tic tac

353
00:19:37,510 --> 00:19:35,919
yeah

354
00:19:40,470 --> 00:19:37,520
tomorrow night is another fader night

355
00:19:42,390 --> 00:19:40,480
with open lines all night long all right

356
00:19:45,350 --> 00:19:42,400
let me hit this river moon coffee i'm in

357
00:19:46,470 --> 00:19:45,360
a great mood great week i got an amazing

358
00:19:47,990 --> 00:19:46,480
weekend

359
00:19:49,190 --> 00:19:48,000
coming up i can't tell you where i'm

360
00:19:51,350 --> 00:19:49,200
going though

361
00:20:01,830 --> 00:19:51,360
i can't

362
00:20:06,230 --> 00:20:04,310
by the time i get to phoenix

363
00:20:09,270 --> 00:20:06,240

no it's not that kind of flight though

364

00:20:12,549 --> 00:20:09,280

it's not that kind of flight great song

365

00:20:17,270 --> 00:20:12,559

great song well all right

366

00:20:22,870 --> 00:20:20,070

isaac is amazing he's amazing funny dude

367

00:20:23,830 --> 00:20:22,880

funny dude all right uh where am i yes

368

00:20:25,830 --> 00:20:23,840

kaz

369

00:20:27,510 --> 00:20:25,840

that's the picture of her ceiling and

370

00:20:30,870 --> 00:20:27,520

then look at that

371

00:20:33,190 --> 00:20:30,880

look at that rock can you imagine that

372

00:20:35,350 --> 00:20:33,200

flaming hot coming through the roof

373

00:20:37,830 --> 00:20:35,360

landing on the pillow next to you that's

374

00:20:40,710 --> 00:20:37,840

crazy thank you for that cass caz is

375

00:20:42,870 --> 00:20:40,720

definitely trying to get promoted

376

00:20:44,630 --> 00:20:42,880

uh trying to get promoted

377

00:20:47,590 --> 00:20:44,640

at the end of the show last night i got

378

00:20:49,270 --> 00:20:47,600

a call from todd

379

00:20:51,830 --> 00:20:49,280

and uh

380

00:20:54,789 --> 00:20:51,840

my blue heaven todd

381

00:20:57,430 --> 00:20:54,799

and uh got a call from todd todd is

382

00:20:59,669 --> 00:20:57,440

studying cosmology

383

00:21:01,990 --> 00:20:59,679

and uh it's kind of funny because todd

384

00:21:05,430 --> 00:21:02,000

is probably listening right now and we

385

00:21:07,430 --> 00:21:05,440

have isaac arthur on the show tonight

386

00:21:08,630 --> 00:21:07,440

and last night that conversation was a

387

00:21:10,870 --> 00:21:08,640

great one

388

00:21:12,310 --> 00:21:10,880

and i understand all of his points that

389

00:21:15,110 --> 00:21:12,320

he made

390

00:21:17,110 --> 00:21:15,120

and uh you know basically about life in

391

00:21:18,789 --> 00:21:17,120

our galaxy or the lack of and the

392

00:21:20,630 --> 00:21:18,799

universe

393

00:21:22,710 --> 00:21:20,640

and you know tonight's guest isaac

394

00:21:25,190 --> 00:21:22,720

arthur has covered all of this many many

395

00:21:29,190 --> 00:21:25,200

times on his podcast and video series

396

00:21:31,029 --> 00:21:29,200

science and futurism with isaac arthur

397

00:21:34,070 --> 00:21:31,039

and isaac's

398

00:21:36,149 --> 00:21:34,080

great filters series

399

00:21:38,310 --> 00:21:36,159

on the fermi paradox is something that

400

00:21:41,190 --> 00:21:38,320

i've listened to and watched dozens of

401
00:21:44,789 --> 00:21:41,200
times and the whole thing is probably

402
00:21:46,789 --> 00:21:44,799
weeks long uh his fermi paradox and

403
00:21:48,870 --> 00:21:46,799
great filter series

404
00:21:50,710 --> 00:21:48,880
it's uh amazing research and i highly

405
00:21:52,950 --> 00:21:50,720
recommend it to anyone who is interested

406
00:21:55,270 --> 00:21:52,960
in the subject and when i say

407
00:21:56,630 --> 00:21:55,280
i've listened to it dozens of times go

408
00:22:00,070 --> 00:21:56,640
to

409
00:22:01,990 --> 00:22:00,080
um isaac's uh website or his youtube

410
00:22:05,110 --> 00:22:02,000
channel science and futurism with isaac

411
00:22:07,190 --> 00:22:05,120
arthur and go to the video series and um

412
00:22:10,230 --> 00:22:07,200
there's a playlist there

413
00:22:13,510 --> 00:22:10,240

um and i am sure there is

414

00:22:15,510 --> 00:22:13,520

a fermi paradox great filters section

415

00:22:18,070 --> 00:22:15,520

and go look at all of those videos look

416

00:22:20,070 --> 00:22:18,080

at the length of some of those videos

417

00:22:22,390 --> 00:22:20,080

and and how many are there in that

418

00:22:25,029 --> 00:22:22,400

series and i'm not joking when i say

419

00:22:26,710 --> 00:22:25,039

it's probably weeks long and when i say

420

00:22:28,390 --> 00:22:26,720

i've listened to it and watched it

421

00:22:32,310 --> 00:22:28,400

dozens of times

422

00:22:34,630 --> 00:22:32,320

i have in fact i've stolen so much of my

423

00:22:37,830 --> 00:22:34,640

amazing material from isaac over the

424

00:22:40,549 --> 00:22:37,840

years i admit it i clearly admit it but

425

00:22:43,990 --> 00:22:40,559

it makes me it makes me appear to be a

426
00:22:45,590 --> 00:22:44,000
pretty smart guy but go and check it out

427
00:22:47,270 --> 00:22:45,600
and

428
00:22:49,110 --> 00:22:47,280
if you uh

429
00:22:51,669 --> 00:22:49,120
listen to the phone call in the

430
00:22:54,070 --> 00:22:51,679
conversation last night i had with todd

431
00:22:55,669 --> 00:22:54,080
and then you go and check out isaac's

432
00:22:58,470 --> 00:22:55,679
series

433
00:23:00,950 --> 00:22:58,480
the presentation there by isaac is

434
00:23:03,669 --> 00:23:00,960
something that is shared that viewpoint

435
00:23:05,590 --> 00:23:03,679
viewpoints i should say are shared by by

436
00:23:07,190 --> 00:23:05,600
many scientists and cosmologists and

437
00:23:09,430 --> 00:23:07,200
astrophysicists

438
00:23:12,789 --> 00:23:09,440

out there around the world and i get it

439

00:23:17,029 --> 00:23:12,799

i i really do including fermi himself so

440

00:23:17,039 --> 00:23:22,870

i agree with almost none of it

441

00:23:29,590 --> 00:23:26,230

the answer is none

442

00:23:33,190 --> 00:23:29,600

but that isn't the point

443

00:23:35,590 --> 00:23:33,200

you see i've learned so much from isaac

444

00:23:39,830 --> 00:23:35,600

and the point is

445

00:23:42,149 --> 00:23:39,840

that it gives me so much to think about

446

00:23:46,630 --> 00:23:42,159

and uh

447

00:23:52,230 --> 00:23:48,950

when you listen to somebody um as

448

00:23:55,110 --> 00:23:52,240

intelligent as isaac and presenting uh

449

00:23:57,190 --> 00:23:55,120

the great filters and the fermi paradox

450

00:23:58,390 --> 00:23:57,200

and jumping into the drake equation and

451
00:24:00,710 --> 00:23:58,400
the size

452
00:24:02,630 --> 00:24:00,720
and scope of not only our milky way but

453
00:24:03,510 --> 00:24:02,640
the universe and what is going on out

454
00:24:07,669 --> 00:24:03,520
there

455
00:24:08,950 --> 00:24:07,679
it is so much data and it's so much

456
00:24:11,110 --> 00:24:08,960
information

457
00:24:12,149 --> 00:24:11,120
but it makes me

458
00:24:17,029 --> 00:24:12,159
think

459
00:24:22,310 --> 00:24:17,039
i've listened to these shows and tried

460
00:24:26,630 --> 00:24:22,320
to absorb all of it now isaac jumps into

461
00:24:28,630 --> 00:24:26,640
the colonization of of of the universe

462
00:24:30,070 --> 00:24:28,640
and of galaxies and multiple star

463
00:24:32,310 --> 00:24:30,080

systems and how

464

00:24:35,190 --> 00:24:32,320

extraterrestrial civilizations would do

465

00:24:38,549 --> 00:24:35,200

that and and it gets into energy sources

466

00:24:41,510 --> 00:24:38,559

and and and heavy math and equations and

467

00:24:43,510 --> 00:24:41,520

and and the time scale of how this stuff

468

00:24:45,669 --> 00:24:43,520

could be achieved okay and

469

00:24:47,510 --> 00:24:45,679

and and what types of ships and how you

470

00:24:51,350 --> 00:24:47,520

would do this okay so

471

00:24:54,870 --> 00:24:51,360

there's all of that data

472

00:24:54,880 --> 00:24:58,149

a deck of cards

473

00:24:58,159 --> 00:25:02,149

that's right

474

00:25:06,149 --> 00:25:04,870

i've used this analogy uh many times on

475

00:25:09,269 --> 00:25:06,159

the show

476

00:25:12,630 --> 00:25:09,279

but it needs to be repeated from time to

477

00:25:15,110 --> 00:25:12,640

time to keep everybody on their toes

478

00:25:18,070 --> 00:25:15,120

and

479

00:25:19,909 --> 00:25:18,080

ah so back to the deck of cards listen

480

00:25:21,750 --> 00:25:19,919

there are only

481

00:25:26,470 --> 00:25:21,760

so many

482

00:25:27,909 --> 00:25:26,480

elements particles atoms gases chemicals

483

00:25:29,990 --> 00:25:27,919

in the universe there's only so many

484

00:25:31,669 --> 00:25:30,000

it's a limited it's a fixed amount it's

485

00:25:33,909 --> 00:25:31,679

not infinite

486

00:25:35,029 --> 00:25:33,919

it's it's it's not there's only so many

487

00:25:36,950 --> 00:25:35,039

ways

488

00:25:38,950 --> 00:25:36,960

that particles

489

00:25:39,830 --> 00:25:38,960

can combine

490

00:25:42,070 --> 00:25:39,840

okay

491

00:25:43,669 --> 00:25:42,080

it's not infinite

492

00:25:44,950 --> 00:25:43,679

okay

493

00:25:46,789 --> 00:25:44,960

and

494

00:25:48,710 --> 00:25:46,799

carbon

495

00:25:50,630 --> 00:25:48,720

here on earth

496

00:25:54,390 --> 00:25:50,640

is carbon on the other side of the

497

00:25:59,190 --> 00:25:56,630

and and that goes with absolutely

498

00:26:01,830 --> 00:25:59,200

everything else you can think of that's

499

00:26:03,029 --> 00:26:01,840

it there's no other way to look at it

500

00:26:05,590 --> 00:26:03,039

now

501
00:26:06,630 --> 00:26:05,600
back to the deck of cards

502
00:26:10,870 --> 00:26:06,640
when you

503
00:26:12,710 --> 00:26:10,880
look at things this way

504
00:26:15,990 --> 00:26:12,720
you have a deck of cards you've got some

505
00:26:17,830 --> 00:26:16,000
friends sitting around a poker table you

506
00:26:20,230 --> 00:26:17,840
shuffle the deck

507
00:26:23,590 --> 00:26:20,240
deal out five cards each take a look at

508
00:26:26,470 --> 00:26:23,600
your cards boom done

509
00:26:27,909 --> 00:26:26,480
next hand shuffle the deck

510
00:26:32,310 --> 00:26:27,919
eventually

511
00:26:38,310 --> 00:26:35,029
you are going to shuffle the deck

512
00:26:41,430 --> 00:26:38,320
exactly the same and you are going to

513
00:26:43,269 --> 00:26:41,440

deal out the exact hand

514

00:26:45,590 --> 00:26:43,279

to all of your partners they're going to

515

00:26:47,350 --> 00:26:45,600

look at their cards and eventually that

516

00:26:49,510 --> 00:26:47,360

is going to happen

517

00:26:51,350 --> 00:26:49,520

it may take a while

518

00:26:53,350 --> 00:26:51,360

it may take a couple of hands it could

519

00:26:55,190 --> 00:26:53,360

happen

520

00:26:59,830 --> 00:26:55,200

but eventually

521

00:27:04,470 --> 00:27:01,990

it's no different

522

00:27:05,430 --> 00:27:04,480

with particles

523

00:27:09,430 --> 00:27:05,440

it's

524

00:27:11,430 --> 00:27:09,440

just not any different

525

00:27:13,110 --> 00:27:11,440

that goes with

526
00:27:15,029 --> 00:27:13,120
me

527
00:27:16,310 --> 00:27:15,039
eventually particles are going to

528
00:27:18,389 --> 00:27:16,320
combine

529
00:27:21,430 --> 00:27:18,399
out there in the universe

530
00:27:25,909 --> 00:27:21,440
and make an identical

531
00:27:29,830 --> 00:27:27,909
it's a numbers game

532
00:27:31,750 --> 00:27:29,840
eventually

533
00:27:34,230 --> 00:27:31,760
there will be

534
00:27:35,909 --> 00:27:34,240
an identical

535
00:27:37,830 --> 00:27:35,919
earth

536
00:27:40,870 --> 00:27:37,840
identical

537
00:27:44,710 --> 00:27:40,880
that's just the way that it is now

538
00:27:45,909 --> 00:27:44,720

highly probable well it no it's it's

539

00:27:47,430 --> 00:27:45,919

it's

540

00:27:50,470 --> 00:27:47,440

inevitable

541

00:27:51,669 --> 00:27:50,480

and it's already happened

542

00:27:53,350 --> 00:27:51,679

that's it

543

00:27:56,549 --> 00:27:53,360

now

544

00:27:59,350 --> 00:27:56,559

that's for repeated versions of me and

545

00:28:01,190 --> 00:27:59,360

of you and of this planet an identical

546

00:28:02,710 --> 00:28:01,200

earth is out there somewhere

547

00:28:04,710 --> 00:28:02,720

but

548

00:28:06,630 --> 00:28:04,720

those same particles

549

00:28:08,549 --> 00:28:06,640

are going to combine

550

00:28:10,630 --> 00:28:08,559

into life

551
00:28:12,870 --> 00:28:10,640
a lot

552
00:28:15,750 --> 00:28:12,880
that's it it's going to repeat and

553
00:28:17,190 --> 00:28:15,760
repeat and repeat what kind of life

554
00:28:18,789 --> 00:28:17,200
don't know

555
00:28:21,029 --> 00:28:18,799
kind of gravity on that planet don't

556
00:28:23,269 --> 00:28:21,039
know carbon based don't know

557
00:28:24,950 --> 00:28:23,279
i don't know but life

558
00:28:25,990 --> 00:28:24,960
is repeating

559
00:28:27,830 --> 00:28:26,000
out there

560
00:28:30,630 --> 00:28:27,840
all over the place well why haven't we

561
00:28:31,990 --> 00:28:30,640
seen it i don't know there's lots of

562
00:28:36,110 --> 00:28:32,000
reasons

563
00:28:38,710 --> 00:28:36,120

but you cannot and i will go back to any

564

00:28:40,710 --> 00:28:38,720

astrophysicist and say when somebody

565

00:28:43,590 --> 00:28:40,720

says you don't want me to you know life

566

00:28:45,190 --> 00:28:43,600

is very rare prove it

567

00:28:47,669 --> 00:28:45,200

prove it

568

00:28:50,230 --> 00:28:47,679

you cannot prove that there is no life

569

00:28:52,789 --> 00:28:50,240

out there any more than i can say there

570

00:28:54,710 --> 00:28:52,799

is life out there except this is what

571

00:28:57,830 --> 00:28:54,720

tips the scales

572

00:28:59,750 --> 00:28:57,840

life is everywhere you can't stop it

573

00:29:04,149 --> 00:28:59,760

chemicals are chemicals they are going

574

00:29:06,950 --> 00:29:04,159

to combine in only limited amounts of

575

00:29:09,110 --> 00:29:06,960

versions of everything that's it

576

00:29:12,549 --> 00:29:09,120

and there has to be

577

00:29:15,669 --> 00:29:12,559

life out there you cannot prove to me

578

00:29:17,110 --> 00:29:15,679

that uh particles are stopping uh their

579

00:29:19,029 --> 00:29:17,120

combinations

580

00:29:21,909 --> 00:29:19,039

and and that's it there's nothing else

581

00:29:25,590 --> 00:29:21,919

out there that we are unique and that is

582

00:29:28,310 --> 00:29:25,600

it no no the the argument is the

583

00:29:29,909 --> 00:29:28,320

opposite

584

00:29:35,750 --> 00:29:29,919

i have

585

00:29:38,230 --> 00:29:35,760

in my gun say that the chemistry here on

586

00:29:39,909 --> 00:29:38,240

this planet is the same chemistry

587

00:29:43,029 --> 00:29:39,919

everywhere in the universe and you

588

00:29:44,630 --> 00:29:43,039

cannot tell me that life doesn't exist

589

00:29:47,350 --> 00:29:44,640

all over the place

590

00:29:50,470 --> 00:29:47,360

that's it that's it you cannot prove to

591

00:29:52,870 --> 00:29:50,480

me that that particles and physics and

592

00:29:54,630 --> 00:29:52,880

things cease to exist

593

00:29:57,909 --> 00:29:54,640

everywhere else

594

00:30:00,470 --> 00:29:57,919

no and that's the end of the argument

595

00:30:02,950 --> 00:30:00,480

it's the deck of cards

596

00:30:05,190 --> 00:30:02,960

that deck of cards it will eventually

597

00:30:07,350 --> 00:30:05,200

repeat and with the size and the

598

00:30:09,269 --> 00:30:07,360

vastness of everything out there it's

599

00:30:11,430 --> 00:30:09,279

repeated a lot

600

00:30:14,230 --> 00:30:11,440

it's a numbers game there's a lot of

601
00:30:16,389 --> 00:30:14,240
life out there i'll be discussing all of

602
00:30:17,909 --> 00:30:16,399
this tonight with isaac arthur as we

603
00:30:19,430 --> 00:30:17,919
jump into

604
00:30:21,909 --> 00:30:19,440
the physics

605
00:30:24,470 --> 00:30:21,919
of a tic tac this is fade to black our

606
00:30:27,430 --> 00:30:24,480
guest tonight is isaac arthur host of

607
00:30:30,149 --> 00:30:27,440
science and futurism with isaac arthur

608
00:30:32,310 --> 00:30:30,159
his website isaacarthur.net is right

609
00:30:34,630 --> 00:30:32,320
there at jimmychurchradio.com go and

610
00:30:37,750 --> 00:30:34,640
check it out it's amazing site and he's

611
00:30:38,950 --> 00:30:37,760
got one of the greatest youtube channels

612
00:30:40,950 --> 00:30:38,960
in all

613
00:30:42,470 --> 00:30:40,960

of youtube i'm your host jimmy church

614

00:30:44,630 --> 00:30:42,480

this is fade to black on the game

615

00:30:47,430 --> 00:30:44,640

changer network kjcr

616

00:30:50,149 --> 00:30:47,440

and on x network

617

00:30:51,750 --> 00:30:50,159

as of october 31st that's the big party

618

00:30:53,590 --> 00:30:51,760

i'll be right back with our guest isaac

619

00:31:02,040 --> 00:30:53,600

arthur right after this short break stay

620

00:31:19,750 --> 00:31:17,590

[Music]

621

00:31:21,990 --> 00:31:19,760

this is nicole church daughter of you

622

00:31:22,990 --> 00:31:22,000

know who and you're listening to fade to

623

00:31:24,630 --> 00:31:23,000

black on

624

00:31:28,389 --> 00:31:24,640

jimmychurchradio.com and the game

625

00:31:34,789 --> 00:31:30,710

you're listening to jimmy church fade to

626

00:31:38,060 --> 00:31:37,029

fate to black will now pause for alien

627

00:31:42,310 --> 00:31:38,070

identification

628

00:31:46,470 --> 00:31:44,630

introducing the game changer blend from

629

00:31:49,029 --> 00:31:46,480

river moon coffee that delivers a

630

00:31:52,070 --> 00:31:49,039

customized blend made specifically for

631

00:31:55,029 --> 00:31:52,080

the fader knots if the game is rigged

632

00:31:56,230 --> 00:31:55,039

change the game it's a boulder cup with

633

00:31:58,470 --> 00:31:56,240

some bite

634

00:32:00,710 --> 00:31:58,480

game changer is the coffee of choice for

635

00:32:03,750 --> 00:32:00,720

those that prefer an organic dark roast

636

00:32:06,549 --> 00:32:03,760

that is slightly lighter and milder but

637

00:32:08,789 --> 00:32:06,559

it's still dark with wild notes of

638

00:32:11,350 --> 00:32:08,799

pecans and chocolate with a rich

639

00:32:13,509 --> 00:32:11,360

balanced full-bodied cup that is roasted

640

00:32:16,549 --> 00:32:13,519

to perfection for a great coffee to

641

00:32:19,590 --> 00:32:16,559

start your day as an after dinner coffee

642

00:32:22,070 --> 00:32:19,600

or anywhere in between artisan small

643

00:32:24,630 --> 00:32:22,080

batch roasted to perfection usda

644

00:32:27,029 --> 00:32:24,640

certified organic all river moon coffee

645

00:32:29,909 --> 00:32:27,039

is freshly roasted and packaged in the

646

00:32:31,990 --> 00:32:29,919

usa just go to rivermooncoffee.com or

647

00:32:35,909 --> 00:32:32,000

click on the banners over on our site

648

00:32:37,990 --> 00:32:35,919

and use the promo code f2b blend for 15

649

00:32:40,860 --> 00:32:38,000

off of your order today

650

00:32:48,950 --> 00:32:40,870

rivermooncoffee.com

651
00:32:53,590 --> 00:32:50,710
this is jimmy church of fade to black

652
00:32:55,909 --> 00:32:53,600
and you can get our podcast for just two

653
00:32:58,230 --> 00:32:55,919
dollars per month all you have to do is

654
00:33:01,029 --> 00:32:58,240
click on the podcast banner over at

655
00:33:03,669 --> 00:33:01,039
jimmychurchradio.com

656
00:33:06,310 --> 00:33:03,679
hi folks it's trembling times and fear

657
00:33:08,070 --> 00:33:06,320
is pushing emotions which in turn pushes

658
00:33:10,230 --> 00:33:08,080
health the wrong direction do you ever

659
00:33:12,630 --> 00:33:10,240
get an ache because life is uneasy try

660
00:33:14,549 --> 00:33:12,640
life change tea get the tea.com life

661
00:33:16,630 --> 00:33:14,559
change tea works on your digestive tract

662
00:33:19,190 --> 00:33:16,640
helping to move food through quicker and

663
00:33:20,950 --> 00:33:19,200

comfortably so your health is spot on

664

00:33:23,029 --> 00:33:20,960

life change tea may not help with world

665

00:33:25,590 --> 00:33:23,039

issues but it will help with your

666

00:33:28,149 --> 00:33:25,600

digestive issues a glass a day helps

667

00:33:30,710 --> 00:33:28,159

keep the intruders away so

668

00:33:33,830 --> 00:33:30,720

change your life today log on to get the

669

00:33:36,149 --> 00:33:33,840

tea.com that's get the tea dot com if

670

00:33:39,110 --> 00:33:36,159

your health game is off get on by

671

00:33:40,950 --> 00:33:39,120

ordering life change tea get the tea.com

672

00:33:43,590 --> 00:33:40,960

and while you're on our site look around

673

00:33:45,509 --> 00:33:43,600

at the great non-gmo organic supplements

674

00:33:48,230 --> 00:33:45,519

and if you're a sales shopper go to our

675

00:33:49,990 --> 00:33:48,240

specials page and see what's for you

676

00:33:51,509 --> 00:33:50,000

i've been drinking the tea for 12 years

677

00:33:54,149 --> 00:33:51,519

and i'm sure glad for its health

678

00:33:56,070 --> 00:33:54,159

benefits again that's get the tea dot

679

00:33:57,350 --> 00:33:56,080

com get the tea

680

00:33:59,669 --> 00:33:57,360

dot com

681

00:34:01,590 --> 00:33:59,679

the tea that makes you go

682

00:34:03,430 --> 00:34:01,600

fader knots when you think about the

683

00:34:05,350 --> 00:34:03,440

future of our country and where we're

684

00:34:08,470 --> 00:34:05,360

headed do you wonder about the food

685

00:34:10,629 --> 00:34:08,480

supply i do disruptions in the food

686

00:34:13,430 --> 00:34:10,639

supply chain could be disastrous and

687

00:34:15,430 --> 00:34:13,440

they usually occur with little warning

688

00:34:18,389 --> 00:34:15,440

that's why the smartest thing you can do

689

00:34:21,430 --> 00:34:18,399

today is to stockpile emergency food

690

00:34:24,149 --> 00:34:21,440

water and other essentials i personally

691

00:34:26,470 --> 00:34:24,159

recommend my patriot supply they're the

692

00:34:29,030 --> 00:34:26,480

nation's largest emergency preparedness

693

00:34:31,510 --> 00:34:29,040

company serving millions of customers

694

00:34:34,230 --> 00:34:31,520

for more than a decade in fact they're

695

00:34:37,030 --> 00:34:34,240

the only source my family trust for our

696

00:34:39,589 --> 00:34:37,040

preparedness plan you should too

697

00:34:41,829 --> 00:34:39,599

right now save 20 percent off a full

698

00:34:45,190 --> 00:34:41,839

four week supply of delicious meals that

699

00:34:48,069 --> 00:34:45,200

provide 2 000 calories a day saving 20

700

00:34:51,270 --> 00:34:48,079

percent helps too doesn't it especially

701
00:34:55,030 --> 00:34:51,280
now so go to prepare with jimmy.com and

702
00:35:00,069 --> 00:34:55,040
get ready that's prepare with jimmy.com

703
00:35:00,079 --> 00:35:05,109
nine out of ten geneticists agree

704
00:35:08,870 --> 00:35:07,510
fade to black

705
00:35:11,510 --> 00:35:08,880
is not

706
00:35:15,670 --> 00:35:11,520
your father's radio show

707
00:35:17,670 --> 00:35:15,680
on the game changer radio network

708
00:35:22,310 --> 00:35:17,680
hi this is rob reiner from anvil and

709
00:35:28,500 --> 00:35:24,069
what's up i'm chris what up this is kyle

710
00:35:28,510 --> 00:35:45,910
[Music]

711
00:35:50,630 --> 00:35:47,589
all right welcome back paid to black i

712
00:35:52,390 --> 00:35:50,640
am your host jimmy church

713
00:35:53,750 --> 00:35:52,400

what is cracking everybody how you doing

714

00:35:56,150 --> 00:35:53,760

what a great week on the show and

715

00:35:57,270 --> 00:35:56,160

tonight very special guest isaac arthur

716

00:35:58,870 --> 00:35:57,280

is with us

717

00:36:01,430 --> 00:35:58,880

and uh tomorrow night's another fader

718

00:36:03,030 --> 00:36:01,440

night with open lines all night long so

719

00:36:05,430 --> 00:36:03,040

get ready for that but

720

00:36:07,430 --> 00:36:05,440

tonight it's isaac and he's back we're

721

00:36:08,710 --> 00:36:07,440

going to be talking about the physics of

722

00:36:11,030 --> 00:36:08,720

a tic tac

723

00:36:12,790 --> 00:36:11,040

and what may or may not be visiting our

724

00:36:14,069 --> 00:36:12,800

planet and hanging out with the united

725

00:36:15,670 --> 00:36:14,079

states navy

726

00:36:17,670 --> 00:36:15,680

isaac is the host of science and

727

00:36:20,390 --> 00:36:17,680

futurism with isaac arthur on youtube

728

00:36:23,190 --> 00:36:20,400

with over 650

729

00:36:25,430 --> 00:36:23,200

000 subscribers covering topics like

730

00:36:28,150 --> 00:36:25,440

colonizing the solar system interstellar

731

00:36:29,589 --> 00:36:28,160

travel the fermi paradox artificial

732

00:36:32,150 --> 00:36:29,599

intelligence and other topics

733

00:36:35,109 --> 00:36:32,160

representing possible future paths and

734

00:36:37,109 --> 00:36:35,119

challenges for humanity isaac received

735

00:36:39,349 --> 00:36:37,119

his degree in physics from kent state

736

00:36:41,430 --> 00:36:39,359

university graduating top of his class

737

00:36:44,790 --> 00:36:41,440

at the age of 20.

738

00:36:46,069 --> 00:36:44,800

what have you done with your life lately

739

00:36:47,750 --> 00:36:46,079

that's right

740

00:36:50,150 --> 00:36:47,760

and he remained there for graduate

741

00:36:52,470 --> 00:36:50,160

studies before joining the us army

742

00:36:54,550 --> 00:36:52,480

-serving in iraq he also worked as a

743

00:36:57,430 --> 00:36:54,560

civilian researcher at the air force

744

00:36:59,030 --> 00:36:57,440

institute of technology in dayton ohio

745

00:37:01,790 --> 00:36:59,040

which means

746

00:37:03,510 --> 00:37:01,800

isaac knows things his website is

747

00:37:05,750 --> 00:37:03,520

isaacarthur.net and i would like to

748

00:37:08,470 --> 00:37:05,760

welcome back to fade to black isaac

749

00:37:09,270 --> 00:37:08,480

arthur isaac man good evening how are

750

00:37:10,630 --> 00:37:09,280

you

751

00:37:13,510 --> 00:37:10,640

doing great jimmy thanks for having me

752

00:37:15,670 --> 00:37:13,520

back on yeah it's it's so great uh not

753

00:37:17,430 --> 00:37:15,680

only do i love to hear your voice and

754

00:37:21,030 --> 00:37:17,440

and to see you too as well

755

00:37:23,510 --> 00:37:21,040

but um you gave me a shout out last year

756

00:37:26,390 --> 00:37:23,520

on on your show

757

00:37:30,470 --> 00:37:26,400

and i'm gonna say man uh twitter lit up

758

00:37:33,190 --> 00:37:30,480

and it was so great that uh a that uh

759

00:37:36,150 --> 00:37:33,200

uh the fader knobs are dialed in to

760

00:37:38,550 --> 00:37:36,160

isaac but uh it was so cool for people

761

00:37:39,670 --> 00:37:38,560

man isaac gave you a shout out today and

762

00:37:45,109 --> 00:37:39,680

i got

763

00:37:47,670 --> 00:37:45,119

and watched it man and uh i was honored

764

00:37:51,270 --> 00:37:47,680

that was uh very cool so uh thank you so

765

00:37:52,630 --> 00:37:51,280

much 600 and

766

00:37:56,069 --> 00:37:52,640

000.

767

00:37:57,670 --> 00:37:56,079

uh it's actually uh far north of that uh

768

00:38:00,310 --> 00:37:57,680

now but um

769

00:38:02,710 --> 00:38:00,320

uh i keep saying this to you isaac i

770

00:38:03,589 --> 00:38:02,720

remember one right

771

00:38:09,109 --> 00:38:03,599

and

772

00:38:12,470 --> 00:38:09,119

watching the growth of of your channel

773

00:38:13,589 --> 00:38:12,480

and how many people um are excited about

774

00:38:17,109 --> 00:38:13,599

science

775

00:38:19,270 --> 00:38:17,119

physics uh the universe our galaxy and

776

00:38:21,750 --> 00:38:19,280

what is going on out there that is very

777

00:38:22,550 --> 00:38:21,760

impressive man and uh congratulations on

778

00:38:23,910 --> 00:38:22,560

that

779

00:38:25,670 --> 00:38:23,920

well thanks we just hit our seventh

780

00:38:27,109 --> 00:38:25,680

anniversary and uh you know i'm still

781

00:38:28,470 --> 00:38:27,119

loving as much as the first day we

782

00:38:31,589 --> 00:38:28,480

started doing it

783

00:38:32,790 --> 00:38:31,599

you know you know what i uh back back in

784

00:38:35,750 --> 00:38:32,800

the day

785

00:38:38,950 --> 00:38:35,760

one of your first uh series uh that you

786

00:38:40,950 --> 00:38:38,960

had done was uh the great filters and

787

00:38:43,990 --> 00:38:40,960

and the fermi paradox

788

00:38:47,030 --> 00:38:44,000

which if you uh

789

00:38:48,870 --> 00:38:47,040

as a listener if you start with uh the

790

00:38:50,390 --> 00:38:48,880

top of the list and work your way down

791

00:38:51,349 --> 00:38:50,400

that's probably going to take you a

792

00:38:53,670 --> 00:38:51,359

month

793

00:38:55,190 --> 00:38:53,680

right to listen to it's a lot of

794

00:38:59,750 --> 00:38:55,200

material there

795

00:39:01,829 --> 00:38:59,760

and i listen to it over and over again

796

00:39:04,230 --> 00:39:01,839

uh i i can't tell you how much

797

00:39:06,470 --> 00:39:04,240

information i i i stole from that uh

798

00:39:07,990 --> 00:39:06,480

that was a lot of work

799

00:39:09,910 --> 00:39:08,000

it was i mean the funny thing about the

800

00:39:10,870 --> 00:39:09,920

40 paradoxes i really thought that was

801
00:39:12,550 --> 00:39:10,880
just going to be one of those episodes

802
00:39:13,750 --> 00:39:12,560
we touched on one time and never

803
00:39:14,390 --> 00:39:13,760
revisited because it seemed like went

804
00:39:16,069 --> 00:39:14,400
through

805
00:39:18,069 --> 00:39:16,079
all the solutions and now the solutions

806
00:39:19,190 --> 00:39:18,079
actually work perfectly fine everyone's

807
00:39:21,109 --> 00:39:19,200
got a little bit of a flaw and i thought

808
00:39:22,390 --> 00:39:21,119
here's the evidence take it judge it for

809
00:39:24,230 --> 00:39:22,400
yourself let's move on to the space

810
00:39:25,829 --> 00:39:24,240
conversation topics and yet ended up

811
00:39:27,349 --> 00:39:25,839
becoming one of our most popular topics

812
00:39:30,790 --> 00:39:27,359
because there's always

813
00:39:31,910 --> 00:39:30,800

so much more to explore it's just such a

814

00:39:33,510 --> 00:39:31,920

it's one of those questions you could

815

00:39:35,030 --> 00:39:33,520

probably spend twice as much time as

816

00:39:37,510 --> 00:39:35,040

i've done on it and still barely scratch

817

00:39:38,550 --> 00:39:37,520

the surface of the options yeah but i

818

00:39:40,790 --> 00:39:38,560

mean

819

00:39:44,230 --> 00:39:40,800

when you have when you look at the great

820

00:39:46,310 --> 00:39:44,240

filters which um you can break down and

821

00:39:47,349 --> 00:39:46,320

you have um

822

00:39:49,829 --> 00:39:47,359

into

823

00:39:52,069 --> 00:39:49,839

three four five six

824

00:39:53,430 --> 00:39:52,079

categories and then break that down

825

00:39:55,030 --> 00:39:53,440

underneath the next thing you know

826

00:39:58,310 --> 00:39:55,040

you're approaching

827

00:40:00,710 --> 00:39:58,320

a hundred filters and each one of those

828

00:40:01,750 --> 00:40:00,720

filters is a show

829

00:40:04,069 --> 00:40:01,760

right

830

00:40:06,790 --> 00:40:04,079

and and you can continue

831

00:40:08,710 --> 00:40:06,800

off of each filter it's like the gift

832

00:40:11,030 --> 00:40:08,720

that keeps on giving right

833

00:40:13,270 --> 00:40:11,040

that is true yeah we uh once the list of

834

00:40:15,589 --> 00:40:13,280

50 known ones just to use 50s round

835

00:40:16,470 --> 00:40:15,599

number of potential suggested filters

836

00:40:17,750 --> 00:40:16,480

and

837

00:40:19,190 --> 00:40:17,760

we probably could get away during the

838

00:40:20,630 --> 00:40:19,200

episode almost every single one of them

839

00:40:22,150 --> 00:40:20,640

some we could we're doing more than one

840

00:40:23,990 --> 00:40:22,160

on we've already done some of the major

841

00:40:26,309 --> 00:40:24,000

categories that some of them fall into

842

00:40:27,589 --> 00:40:26,319

so i mean you could spend an entire hour

843

00:40:29,190 --> 00:40:27,599

just looking at the importance of

844

00:40:31,430 --> 00:40:29,200

whether or not you evolved a parenting

845

00:40:33,430 --> 00:40:31,440

skill with a potential civilization

846

00:40:35,349 --> 00:40:33,440

because would something like a lone wolf

847

00:40:38,069 --> 00:40:35,359

civilization ever actually develop a

848

00:40:40,710 --> 00:40:38,079

civilization and there's all like

849

00:40:42,470 --> 00:40:40,720

quasars and well all these are so many

850

00:40:43,270 --> 00:40:42,480

topics you know themselves you look at

851
00:40:45,190 --> 00:40:43,280
and

852
00:40:46,950 --> 00:40:45,200
sadly we don't actually have much of a

853
00:40:49,270 --> 00:40:46,960
clue as to which ones might be factors

854
00:40:53,030 --> 00:40:49,280
in a big way because we have

855
00:40:56,150 --> 00:40:53,040
so little data

856
00:40:58,550 --> 00:40:56,160
and well yeah you can say that

857
00:41:00,630 --> 00:40:58,560
but the data that is presented and the

858
00:41:03,910 --> 00:41:00,640
way that you do it that's a lot of

859
00:41:05,430 --> 00:41:03,920
research and but this is the thing

860
00:41:06,470 --> 00:41:05,440
um

861
00:41:12,470 --> 00:41:06,480
all

862
00:41:16,470 --> 00:41:12,480
and and and what i mean by that is

863
00:41:18,710 --> 00:41:16,480

uh for somebody in my position uh where

864

00:41:20,710 --> 00:41:18,720

i go through the fermi paradox just in

865

00:41:22,950 --> 00:41:20,720

the you know there's there's all this

866

00:41:26,630 --> 00:41:22,960

stuff out there so where are they that

867

00:41:27,910 --> 00:41:26,640

right there just makes me angry um and

868

00:41:30,550 --> 00:41:27,920

you take

869

00:41:34,630 --> 00:41:30,560

your research and others and you look at

870

00:41:37,109 --> 00:41:34,640

it and it gives me stuff to think about

871

00:41:38,950 --> 00:41:37,119

it gives me the counter argument you're

872

00:41:41,829 --> 00:41:38,960

always going to have the prosecution in

873

00:41:45,190 --> 00:41:41,839

the defense right and that's what you

874

00:41:48,390 --> 00:41:45,200

give me is you have given me the tools

875

00:41:50,950 --> 00:41:48,400

to come back out and and give my side of

876
00:41:53,109 --> 00:41:50,960
the story for that i thank you man and

877
00:41:54,150 --> 00:41:53,119
your research is absolutely humbling

878
00:41:55,510 --> 00:41:54,160
isaac

879
00:41:59,750 --> 00:41:55,520
well you're very welcome and very

880
00:42:02,710 --> 00:42:00,870
but i think it is one of those key

881
00:42:04,069 --> 00:42:02,720
things to remember is is i think we tend

882
00:42:05,829 --> 00:42:04,079
to break things and there's the skeptics

883
00:42:07,349 --> 00:42:05,839
category and the believers category and

884
00:42:09,510 --> 00:42:07,359
that's not really the right way to look

885
00:42:11,270 --> 00:42:09,520
at it there's a whole bunch of different

886
00:42:12,870 --> 00:42:11,280
subcategories even on the anomaly

887
00:42:14,870 --> 00:42:12,880
skeptical side series there's a

888
00:42:17,030 --> 00:42:14,880

definitive difference of reasons why it

889

00:42:18,550 --> 00:42:17,040

might be the case with witnesses but the

890

00:42:20,470 --> 00:42:18,560

idea is that everyone's trying to aim to

891

00:42:22,230 --> 00:42:20,480

get the truth and i think most folks

892

00:42:24,150 --> 00:42:22,240

agree that one way or another we don't

893

00:42:25,750 --> 00:42:24,160

actually have that yet there's an

894

00:42:27,030 --> 00:42:25,760

incomplete picture

895

00:42:29,030 --> 00:42:27,040

whichever side turns out to have the

896

00:42:30,710 --> 00:42:29,040

right data on this the right theory it's

897

00:42:31,589 --> 00:42:30,720

probably not gonna be quite right on the

898

00:42:33,270 --> 00:42:31,599

nose

899

00:42:34,309 --> 00:42:33,280

and there's just always gonna be little

900

00:42:36,470 --> 00:42:34,319

holes here and there that we need to

901
00:42:38,309 --> 00:42:36,480
patch up and we have to keep looking at

902
00:42:39,990 --> 00:42:38,319
it whether it turns out that we're the

903
00:42:41,430 --> 00:42:40,000
only thing out there or whether it turns

904
00:42:43,270 --> 00:42:41,440
out they land here every week and we'll

905
00:42:44,630 --> 00:42:43,280
just completely blind ourselves to it as

906
00:42:46,230 --> 00:42:44,640
a civilization

907
00:42:47,910 --> 00:42:46,240
we don't know for sure yet and we

908
00:42:49,990 --> 00:42:47,920
haven't got something that completely

909
00:42:51,589 --> 00:42:50,000
satisfies the answer we don't know why

910
00:42:53,270 --> 00:42:51,599
would they be not just coming out and

911
00:42:54,550 --> 00:42:53,280
saying hello we have some theories why

912
00:42:56,790 --> 00:42:54,560
they might land here every day and say

913
00:42:58,790 --> 00:42:56,800

hello to some folks not to be else but

914

00:42:59,670 --> 00:42:58,800

we don't know for sure yet well what do

915

00:43:02,150 --> 00:42:59,680

we do

916

00:43:03,510 --> 00:43:02,160

you know with somebody like you in your

917

00:43:07,109 --> 00:43:03,520

position

918

00:43:09,510 --> 00:43:07,119

um uh and your your channel is

919

00:43:13,030 --> 00:43:09,520

absolutely amazing and and it is

920

00:43:16,550 --> 00:43:13,040

fantastic and it is great but

921

00:43:17,910 --> 00:43:16,560

right you fall somewhere on

922

00:43:20,390 --> 00:43:17,920

on this

923

00:43:23,109 --> 00:43:20,400

and i would say that you are strongly

924

00:43:25,109 --> 00:43:23,119

seated in a skeptic

925

00:43:27,990 --> 00:43:25,119

uh uh seat

926
00:43:31,349 --> 00:43:28,000
and which is fine and and we need that

927
00:43:34,630 --> 00:43:31,359
but now you have all of this

928
00:43:36,150 --> 00:43:34,640
um coming out in in popular culture it's

929
00:43:38,790 --> 00:43:36,160
all over tv

930
00:43:40,870 --> 00:43:38,800
uh ufos uaps you've got the senate

931
00:43:41,829 --> 00:43:40,880
intelligence committee you've got

932
00:43:43,510 --> 00:43:41,839
uh

933
00:43:45,430 --> 00:43:43,520
the uap task force you've got the

934
00:43:46,790 --> 00:43:45,440
department of defense you've got pilots

935
00:43:49,430 --> 00:43:46,800
coming forward you've got witness

936
00:43:52,950 --> 00:43:49,440
testimony you've got videos

937
00:43:55,349 --> 00:43:52,960
this is a subject now that is out in

938
00:43:58,150 --> 00:43:55,359

front and for somebody like you you've

939

00:44:00,150 --> 00:43:58,160

never had that data

940

00:44:03,510 --> 00:44:00,160

available to you

941

00:44:06,470 --> 00:44:03,520

what what what are you thinking now um

942

00:44:09,589 --> 00:44:06,480

as as all of this is is the subject of

943

00:44:11,030 --> 00:44:09,599

conversation virtually worldwide

944

00:44:12,470 --> 00:44:11,040

i have to admit it hasn't had as much

945

00:44:14,150 --> 00:44:12,480

effect on me as people tend to think and

946

00:44:16,150 --> 00:44:14,160

i tend to be on the extreme old skeptic

947

00:44:17,829 --> 00:44:16,160

side most scientists think that there

948

00:44:19,670 --> 00:44:17,839

are other alien civilizations in this

949

00:44:21,510 --> 00:44:19,680

galaxy i tend to think they're already

950

00:44:23,670 --> 00:44:21,520

within like several thousand galaxies of

951
00:44:25,510 --> 00:44:23,680
hero so i'm skeptical even by skeptic

952
00:44:28,150 --> 00:44:25,520
standards as to locations and quantities

953
00:44:30,069 --> 00:44:28,160
but to me i would say based on behavior

954
00:44:31,910 --> 00:44:30,079
people say well why would aliens ever

955
00:44:33,990 --> 00:44:31,920
come visit our boy little planet that's

956
00:44:35,430 --> 00:44:34,000
never saturday in the first place either

957
00:44:37,190 --> 00:44:35,440
they're not out there or if they are out

958
00:44:39,190 --> 00:44:37,200
there they visit if they can get here

959
00:44:40,950 --> 00:44:39,200
they're gonna visit right whether in ten

960
00:44:42,710 --> 00:44:40,960
is hostile friendly whatever it is they

961
00:44:43,510 --> 00:44:42,720
are visiting so let's do two solid camps

962
00:44:44,870 --> 00:44:43,520
right

963
00:44:46,790 --> 00:44:44,880

um but i thought there was a lot of

964

00:44:47,750 --> 00:44:46,800

evidence of potential visitations before

965

00:44:49,750 --> 00:44:47,760

all this

966

00:44:51,430 --> 00:44:49,760

you know we've got better data better

967

00:44:53,430 --> 00:44:51,440

than saying it right now but yeah

968

00:44:55,910 --> 00:44:53,440

eyewitness accounts for 50 60 years

969

00:44:58,150 --> 00:44:55,920

minimum you know we had not so many

970

00:44:59,910 --> 00:44:58,160

photographs but nobody had cameras on

971

00:45:01,750 --> 00:44:59,920

them all the time like they do now

972

00:45:02,790 --> 00:45:01,760

so there's more evidence but i'm not

973

00:45:03,910 --> 00:45:02,800

sure that eve could be said to be

974

00:45:05,349 --> 00:45:03,920

conclusive evidence you were going to

975

00:45:07,190 --> 00:45:05,359

get to that tic tac i imagine at some

976

00:45:09,670 --> 00:45:07,200

point and we don't know what that is i

977

00:45:10,950 --> 00:45:09,680

mean we do not know what that was if it

978

00:45:13,270 --> 00:45:10,960

makes the characteristics we think it

979

00:45:14,950 --> 00:45:13,280

does then it's something that nobody on

980

00:45:16,150 --> 00:45:14,960

this planet could have made at least not

981

00:45:17,430 --> 00:45:16,160

without having

982

00:45:19,190 --> 00:45:17,440

such an advantage like let's say it was

983

00:45:20,470 --> 00:45:19,200

a russian or china thing right then they

984

00:45:22,069 --> 00:45:20,480

have such an advantage that they could

985

00:45:23,829 --> 00:45:22,079

kick everybody else's spot

986

00:45:25,670 --> 00:45:23,839

right so we don't know what that was it

987

00:45:28,230 --> 00:45:25,680

might be natural phenomena

988

00:45:29,910 --> 00:45:28,240

i'd be an alien visitor you know

989

00:45:33,190 --> 00:45:29,920

and and what do you

990

00:45:35,750 --> 00:45:33,200

what do you make of of avilobe and you

991

00:45:37,349 --> 00:45:35,760

know his excellent book extraterrestrial

992

00:45:41,430 --> 00:45:37,359

which lays out

993

00:45:43,510 --> 00:45:41,440

a pretty convincing argument isaac

994

00:45:45,670 --> 00:45:43,520

he is a smart man he's a genius to this

995

00:45:48,230 --> 00:45:45,680

area i disagree with them entirely on

996

00:45:50,790 --> 00:45:48,240

the interpretation of umura as a

997

00:45:52,710 --> 00:45:50,800

artificial object to me it was just a

998

00:45:54,230 --> 00:45:52,720

abnormally strange shaped asteroid there

999

00:45:56,069 --> 00:45:54,240

are tons of them they all look weird

1000

00:45:57,589 --> 00:45:56,079

they don't have granny horn together and

1001
00:45:59,030 --> 00:45:57,599
it was just our first chance to see one

1002
00:46:00,390 --> 00:45:59,040
that came from outside of solace and we

1003
00:46:02,470 --> 00:46:00,400
probably had thousands passed through

1004
00:46:04,150 --> 00:46:02,480
here in the last few years this one we

1005
00:46:05,589 --> 00:46:04,160
lucked out and got to see but it doesn't

1006
00:46:08,309 --> 00:46:05,599
really match what i what i would say is

1007
00:46:09,589 --> 00:46:08,319
we'd expect of an artificial artifact

1008
00:46:11,109 --> 00:46:09,599
and i say what's the evidence on

1009
00:46:13,109 --> 00:46:11,119
something that you say

1010
00:46:14,630 --> 00:46:13,119
it's not that it looks weird we expect

1011
00:46:17,190 --> 00:46:14,640
something else that comes along with it

1012
00:46:18,630 --> 00:46:17,200
like it looks like it's this shape well

1013
00:46:21,190 --> 00:46:18,640

is there a signal okay if it's not a

1014

00:46:23,270 --> 00:46:21,200

signal is there is it going faster than

1015

00:46:25,349 --> 00:46:23,280

we expect anything artificial do if it's

1016

00:46:26,710 --> 00:46:25,359

not they say well maybe it's not maybe

1017

00:46:28,950 --> 00:46:26,720

they're trying to hide it as something

1018

00:46:30,150 --> 00:46:28,960

that we think was natural might not be a

1019

00:46:32,230 --> 00:46:30,160

little bit less obvious with it not

1020

00:46:33,190 --> 00:46:32,240

putting a trajectory we'd ever notice or

1021

00:46:35,190 --> 00:46:33,200

something because we lucked out when it

1022

00:46:36,390 --> 00:46:35,200

came close to the sun so i have nothing

1023

00:46:37,910 --> 00:46:36,400

but respect for the guy i think he's

1024

00:46:39,750 --> 00:46:37,920

wrong on this and that's a critical

1025

00:46:41,109 --> 00:46:39,760

thing he can be wrong on it i don't like

1026
00:46:43,030 --> 00:46:41,119
when people start calling him fringe or

1027
00:46:44,230 --> 00:46:43,040
anything like that you know that's not

1028
00:46:46,870 --> 00:46:44,240
the fairest thing you ought to say to

1029
00:46:47,990 --> 00:46:46,880
him right he is an expert at his field

1030
00:46:49,109 --> 00:46:48,000
but i disagree with him on that

1031
00:46:50,790 --> 00:46:49,119
particular bit

1032
00:46:54,150 --> 00:46:50,800
well one of the things that he points

1033
00:46:58,230 --> 00:46:54,160
out in extraterrestrial is that

1034
00:46:59,829 --> 00:46:58,240
the artist's interpretation of uh omumu

1035
00:47:03,109 --> 00:46:59,839
was wrong

1036
00:47:07,349 --> 00:47:03,119
that the data is it was

1037
00:47:10,069 --> 00:47:07,359
a disc shaped object it was a pancake

1038
00:47:12,470 --> 00:47:10,079

and and you read that in the book and

1039

00:47:15,109 --> 00:47:12,480

and his data collection on that and why

1040

00:47:17,829 --> 00:47:15,119

he suggests something like this

1041

00:47:20,950 --> 00:47:17,839

that's extraordinary this wasn't a

1042

00:47:25,430 --> 00:47:20,960

cigar-shaped long object but it was it

1043

00:47:28,470 --> 00:47:25,440

was a disc shape object now that again

1044

00:47:30,950 --> 00:47:28,480

for uh for for avi to

1045

00:47:33,349 --> 00:47:30,960

to lay it out there like that he's going

1046

00:47:35,990 --> 00:47:33,359

to have people come at him

1047

00:47:37,910 --> 00:47:36,000

but he is holding his ground isaac

1048

00:47:39,109 --> 00:47:37,920

oh he should be able to he's good you

1049

00:47:40,630 --> 00:47:39,119

know

1050

00:47:42,549 --> 00:47:40,640

i again i don't agree with him on that

1051

00:47:43,910 --> 00:47:42,559

part but also when you're you know

1052

00:47:45,670 --> 00:47:43,920

you're down by a lake or wherever you

1053

00:47:47,829 --> 00:47:45,680

see some rocks though shaped an awful

1054

00:47:49,670 --> 00:47:47,839

lot like a disc sometimes too those can

1055

00:47:50,870 --> 00:47:49,680

be natural shapes same as seeing whether

1056

00:47:52,069 --> 00:47:50,880

we tube shaped be kind of weird huh

1057

00:47:54,630 --> 00:47:52,079

honestly seeing a tube shaped one's a

1058

00:47:56,870 --> 00:47:54,640

little bit weirder but asteroids are not

1059

00:47:58,230 --> 00:47:56,880

planets not stuck together by gravity

1060

00:48:00,549 --> 00:47:58,240

and we don't really know the process of

1061

00:48:01,910 --> 00:48:00,559

forming them and the circumstances would

1062

00:48:03,430 --> 00:48:01,920

force anything to be ejected from the

1063

00:48:05,030 --> 00:48:03,440

solar system and that does happen all

1064

00:48:06,309 --> 00:48:05,040

the time right that they are

1065

00:48:08,069 --> 00:48:06,319

extraordinary circumstances we're

1066

00:48:09,910 --> 00:48:08,079

talking a collision or something else

1067

00:48:11,589 --> 00:48:09,920

very high energy powered either whipping

1068

00:48:13,190 --> 00:48:11,599

out gravitationally or an actual

1069

00:48:14,630 --> 00:48:13,200

collision you can get some weird shapes

1070

00:48:15,670 --> 00:48:14,640

out of something like that

1071

00:48:17,990 --> 00:48:15,680

and we don't necessarily want to be

1072

00:48:19,829 --> 00:48:18,000

assuming like if that was a solo sail

1073

00:48:21,270 --> 00:48:19,839

one we never seen something that thin

1074

00:48:22,710 --> 00:48:21,280

you're not gonna make a solo sale that's

1075

00:48:25,670 --> 00:48:22,720

like it's like making the sale for your

1076

00:48:27,430 --> 00:48:25,680

ship um like an overseer ship only like

1077

00:48:29,430 --> 00:48:27,440

a foot thick steel that would make a

1078

00:48:30,630 --> 00:48:29,440

very good sale but it had to be shaped

1079

00:48:32,870 --> 00:48:30,640

that way you know so but you can't

1080

00:48:35,109 --> 00:48:32,880

assume that one pump is gonna do that uh

1081

00:48:36,470 --> 00:48:35,119

is it dis-shaped you know it's not my

1082

00:48:38,230 --> 00:48:36,480

area not to be able to contradict him on

1083

00:48:40,630 --> 00:48:38,240

that if he says dick shake then it's

1084

00:48:42,150 --> 00:48:40,640

probably dish state but if uh yeah i've

1085

00:48:43,910 --> 00:48:42,160

heard most people say it was skull

1086

00:48:45,750 --> 00:48:43,920

shaped i have what people complain about

1087

00:48:47,030 --> 00:48:45,760

the artist reading for either way i

1088

00:48:48,309 --> 00:48:47,040

don't think it changes about the

1089

00:48:51,190 --> 00:48:48,319

characteristic that ship would be it

1090

00:48:53,750 --> 00:48:51,200

would not seem to be a solo sale

1091

00:48:56,870 --> 00:48:53,760

now what about uh and and we can move on

1092

00:48:59,829 --> 00:48:56,880

from omu or more but um there

1093

00:49:01,109 --> 00:48:59,839

for me there were two things that

1094

00:49:02,710 --> 00:49:01,119

happened

1095

00:49:05,030 --> 00:49:02,720

that were

1096

00:49:06,309 --> 00:49:05,040

bona fide head scratchers

1097

00:49:09,670 --> 00:49:06,319

one

1098

00:49:12,549 --> 00:49:09,680

it accelerated and it accelerated

1099

00:49:15,109 --> 00:49:12,559

without any gas discharging from it like

1100

00:49:19,270 --> 00:49:15,119

a comet or something like that

1101
00:49:20,950 --> 00:49:19,280
it accelerated and it took a turn

1102
00:49:22,390 --> 00:49:20,960
it turned

1103
00:49:23,270 --> 00:49:22,400
on its own

1104
00:49:24,870 --> 00:49:23,280
and

1105
00:49:26,630 --> 00:49:24,880
something that we have never seen before

1106
00:49:28,630 --> 00:49:26,640
we look at asteroids all the time we're

1107
00:49:30,790 --> 00:49:28,640
looking at objects in space all the time

1108
00:49:32,549 --> 00:49:30,800
man-made and natural

1109
00:49:34,549 --> 00:49:32,559
that have never shown that type of

1110
00:49:37,270 --> 00:49:34,559
characteristic before

1111
00:49:40,630 --> 00:49:37,280
that's a that's a hard position

1112
00:49:42,390 --> 00:49:40,640
uh to to argue don't you think

1113
00:49:44,790 --> 00:49:42,400

could be but well i'll give you one

1114

00:49:46,470 --> 00:49:44,800

example of how that could happen right

1115

00:49:47,910 --> 00:49:46,480

uh let's take it doesn't matter what the

1116

00:49:49,670 --> 00:49:47,920

shape is let's assume that it's got a

1117

00:49:50,790 --> 00:49:49,680

bit of a cometary body thing going on it

1118

00:49:52,549 --> 00:49:50,800

would collect an awful lot of cord

1119

00:49:53,990 --> 00:49:52,559

material as it came in let's say some of

1120

00:49:56,069 --> 00:49:54,000

that was subsurface it was starting to

1121

00:49:57,829 --> 00:49:56,079

cook up it's getting warmed up now it's

1122

00:49:58,950 --> 00:49:57,839

got some pressure inside it and it

1123

00:50:00,309 --> 00:49:58,960

finally reached that point where it's

1124

00:50:01,589 --> 00:50:00,319

not being held together strong enough we

1125

00:50:02,630 --> 00:50:01,599

want it splits

1126

00:50:03,990 --> 00:50:02,640

you get a little bit of piece of it

1127

00:50:05,430 --> 00:50:04,000

flying off the side it's people are too

1128

00:50:07,109 --> 00:50:05,440

forced to see a bit of outgassing we

1129

00:50:08,230 --> 00:50:07,119

don't really catch because it's quick

1130

00:50:09,990 --> 00:50:08,240

right that's the biggest reason why i

1131

00:50:12,309 --> 00:50:10,000

don't think it's a comet is there's a

1132

00:50:14,390 --> 00:50:12,319

long extended protracted tail but a

1133

00:50:16,069 --> 00:50:14,400

quick explosion we would miss that we

1134

00:50:17,190 --> 00:50:16,079

would miss that easily and that would

1135

00:50:19,349 --> 00:50:17,200

cause it to do a certain short

1136

00:50:21,430 --> 00:50:19,359

acceleration because that is exactly the

1137

00:50:22,790 --> 00:50:21,440

same as the rocket platinum right and if

1138

00:50:24,230 --> 00:50:22,800

you're not looking at just what happens

1139

00:50:25,750 --> 00:50:24,240

that would do it now is that what

1140

00:50:27,430 --> 00:50:25,760

happened i have no idea i poured that

1141

00:50:29,829 --> 00:50:27,440

one out of thin air as of like 10

1142

00:50:31,430 --> 00:50:29,839

seconds ago sure i i'd have to check the

1143

00:50:33,109 --> 00:50:31,440

math on that they're better expose me to

1144

00:50:35,190 --> 00:50:33,119

say if that would even be feasible but

1145

00:50:36,549 --> 00:50:35,200

that's one that comes to mind

1146

00:50:38,069 --> 00:50:36,559

a lot of times what you're looking for

1147

00:50:40,309 --> 00:50:38,079

isn't did it do something you think is

1148

00:50:42,230 --> 00:50:40,319

unnatural but did you multiple things

1149

00:50:44,309 --> 00:50:42,240

that we might expect something an

1150

00:50:45,750 --> 00:50:44,319

artifact to do you know did we get a

1151
00:50:47,589 --> 00:50:45,760
burst of radio signal from it well at

1152
00:50:48,950 --> 00:50:47,599
that point you still have to say well

1153
00:50:50,870 --> 00:50:48,960
it'll show you a different type of

1154
00:50:52,390 --> 00:50:50,880
potential artificiality at that point

1155
00:50:54,150 --> 00:50:52,400
right right how would you know you're

1156
00:50:55,510 --> 00:50:54,160
looking at new york city as opposed to a

1157
00:50:56,790 --> 00:50:55,520
hill there'll be a whole bunch of

1158
00:50:59,030 --> 00:50:56,800
different factors

1159
00:51:00,790 --> 00:50:59,040
and again it could be a pro but if it is

1160
00:51:01,670 --> 00:51:00,800
it's a damage folk that would be the key

1161
00:51:03,990 --> 00:51:01,680
thing

1162
00:51:06,230 --> 00:51:04,000
it could be one but it's damage pope if

1163
00:51:07,430 --> 00:51:06,240

it is and it's not a generation ship

1164

00:51:10,470 --> 00:51:07,440

because it would be the characteristic

1165

00:51:13,190 --> 00:51:10,480

of that yeah yeah and uh

1166

00:51:17,349 --> 00:51:13,200

generational ships man your your stuff

1167

00:51:19,990 --> 00:51:17,359

on that is is game changing okay now uh

1168

00:51:21,430 --> 00:51:20,000

but what about uh the turn

1169

00:51:22,630 --> 00:51:21,440

what about the turn

1170

00:51:24,309 --> 00:51:22,640

well that would be the same kind of

1171

00:51:25,670 --> 00:51:24,319

factor there like i said if it broke

1172

00:51:27,349 --> 00:51:25,680

apart and did a little lock of blooming

1173

00:51:29,430 --> 00:51:27,359

that would do that kind of torn effect

1174

00:51:31,109 --> 00:51:29,440

or could do that kind of torn effect was

1175

00:51:32,069 --> 00:51:31,119

that what did i have no idea again like

1176
00:51:34,470 --> 00:51:32,079
i said i just thought that one up a

1177
00:51:36,069 --> 00:51:34,480
moment ago but any sort of unexpected

1178
00:51:38,710 --> 00:51:36,079
behavior on these things has to be

1179
00:51:40,470 --> 00:51:38,720
kicking the context that we get only

1180
00:51:41,910 --> 00:51:40,480
quick photographs them they're very

1181
00:51:43,750 --> 00:51:41,920
blurry they go through a lot of editing

1182
00:51:45,270 --> 00:51:43,760
and it's already headed away from us we

1183
00:51:47,750 --> 00:51:45,280
do not have the best angle on it we only

1184
00:51:50,069 --> 00:51:47,760
have one angle on it and i mean what we

1185
00:51:51,430 --> 00:51:50,079
should have done my opinion anyway is is

1186
00:51:52,870 --> 00:51:51,440
pour the cash together throw out a

1187
00:51:53,910 --> 00:51:52,880
rocket and follow it we could have

1188
00:51:55,349 --> 00:51:53,920

overrun the thing would take a couple

1189

00:51:57,510 --> 00:51:55,359

more years to reach it but we've gotten

1190

00:51:59,510 --> 00:51:57,520

real good looks at it whether it's

1191

00:52:01,829 --> 00:51:59,520

mundane or artificial and it would

1192

00:52:03,270 --> 00:52:01,839

answer that question maybe uh we'd have

1193

00:52:04,230 --> 00:52:03,280

gotten some good data out of because in

1194

00:52:05,750 --> 00:52:04,240

the first time we ever got to look at

1195

00:52:08,309 --> 00:52:05,760

something close that was from our solar

1196

00:52:09,829 --> 00:52:08,319

system so that was a missed window uh

1197

00:52:11,430 --> 00:52:09,839

technically we've got decades where it

1198

00:52:12,790 --> 00:52:11,440

really be into deep deep space we could

1199

00:52:14,710 --> 00:52:12,800

potentially still shoot something after

1200

00:52:16,710 --> 00:52:14,720

it but the only way to know on these

1201
00:52:18,549 --> 00:52:16,720
objects yes we look at asteroids all the

1202
00:52:20,069 --> 00:52:18,559
time most don't even have names but we

1203
00:52:22,069 --> 00:52:20,079
don't really look at them that close

1204
00:52:24,470 --> 00:52:22,079
we've only sent satellites to a couple

1205
00:52:25,829 --> 00:52:24,480
of them you know we have very little on

1206
00:52:27,829 --> 00:52:25,839
actual data on how these things are put

1207
00:52:29,030 --> 00:52:27,839
together we have to do it all off of

1208
00:52:31,670 --> 00:52:29,040
modeling

1209
00:52:32,790 --> 00:52:31,680
and so we don't know how often it might

1210
00:52:35,109 --> 00:52:32,800
be that something that's going through

1211
00:52:37,510 --> 00:52:35,119
the frozen gaps of interdollar space

1212
00:52:38,630 --> 00:52:37,520
might collect a lot of dust and explode

1213
00:52:40,230 --> 00:52:38,640

a little bit when it got heated up by

1214

00:52:42,150 --> 00:52:40,240

the sun but we know something like that

1215

00:52:43,670 --> 00:52:42,160

could happen right things like that are

1216

00:52:45,670 --> 00:52:43,680

covered in pockmarks or collisions

1217

00:52:47,349 --> 00:52:45,680

there's all sorts of places that you

1218

00:52:49,589 --> 00:52:47,359

know coordinator could have set out and

1219

00:52:51,589 --> 00:52:49,599

frozen and expanded unexpectedly and

1220

00:52:53,270 --> 00:52:51,599

that could cause h or ketone like that

1221

00:52:54,309 --> 00:52:53,280

or or any other number of effects that

1222

00:52:57,430 --> 00:52:54,319

would seem

1223

00:52:59,430 --> 00:52:57,440

non-normal gravity ballistic behaviors

1224

00:53:01,270 --> 00:52:59,440

but was that what happened i have no

1225

00:53:03,829 --> 00:53:01,280

idea we might want to ask why would the

1226
00:53:07,829 --> 00:53:03,839
spaceship have been doing at that time

1227
00:53:10,549 --> 00:53:07,839
yeah well there's it and and the

1228
00:53:13,589 --> 00:53:10,559
the extreme speed uh that it was

1229
00:53:16,150 --> 00:53:13,599
traveling uh you know a couple hundred

1230
00:53:16,950 --> 00:53:16,160
thousand miles an hour and exiting our

1231
00:53:18,790 --> 00:53:16,960
soul

1232
00:53:22,150 --> 00:53:18,800
you know look how long it took for

1233
00:53:24,630 --> 00:53:22,160
voyager uh one and two pioneer 11 uh to

1234
00:53:26,829 --> 00:53:24,640
exit our solar system this thing was

1235
00:53:29,030 --> 00:53:26,839
gone like

1236
00:53:31,030 --> 00:53:29,040
overnight no it's it's the thing is it's

1237
00:53:32,309 --> 00:53:31,040
still actually here we didn't spot to us

1238
00:53:35,030 --> 00:53:32,319

on its way out but it's still not our

1239

00:53:35,990 --> 00:53:35,040

past pluto no but but look how quick it

1240

00:53:38,150 --> 00:53:36,000

did it

1241

00:53:40,630 --> 00:53:38,160

oh it did go pretty quick but one thing

1242

00:53:42,630 --> 00:53:40,640

to keep in context as maximum

1243

00:53:45,109 --> 00:53:42,640

it was only moving i think twice as fast

1244

00:53:47,190 --> 00:53:45,119

as mercury normally opens the sun

1245

00:53:49,109 --> 00:53:47,200

and i mean it was fast but you know the

1246

00:53:51,030 --> 00:53:49,119

plants move very fast too right yeah

1247

00:53:52,870 --> 00:53:51,040

it's still only going at like a couple

1248

00:53:54,230 --> 00:53:52,880

hundred thousand miles now is how your

1249

00:53:57,190 --> 00:53:54,240

light speed is a couple hundred thousand

1250

00:53:59,430 --> 00:53:57,200

miles a second yes right but we were

1251
00:54:01,349 --> 00:53:59,440
shooting a rocket after it uh we would

1252
00:54:02,230 --> 00:54:01,359
have never caught up i thought the same

1253
00:54:03,430 --> 00:54:02,240
thing

1254
00:54:05,829 --> 00:54:03,440
um but

1255
00:54:07,829 --> 00:54:05,839
uh you know if we would have had a

1256
00:54:08,710 --> 00:54:07,839
response and the next time around will

1257
00:54:11,589 --> 00:54:08,720
we

1258
00:54:13,750 --> 00:54:11,599
respond accordingly and and collect the

1259
00:54:16,230 --> 00:54:13,760
data because we weren't able to get a

1260
00:54:19,349 --> 00:54:16,240
good image we weren't able to lock on to

1261
00:54:22,069 --> 00:54:19,359
it and by the time uh it was picked up

1262
00:54:23,349 --> 00:54:22,079
in hawaii first and by the time

1263
00:54:25,349 --> 00:54:23,359

everybody

1264

00:54:27,990 --> 00:54:25,359

saw the data which was a couple of days

1265

00:54:30,069 --> 00:54:28,000

later it's gone right and and we didn't

1266

00:54:33,109 --> 00:54:30,079

have a way to track it or

1267

00:54:36,069 --> 00:54:33,119

uh you know get imaging onto it with

1268

00:54:37,430 --> 00:54:36,079

with any uh telescope

1269

00:54:39,190 --> 00:54:37,440

well we had a couple thrown together

1270

00:54:41,829 --> 00:54:39,200

methods that we could uh crash pursuit

1271

00:54:43,190 --> 00:54:41,839

of it on i think well they probably

1272

00:54:45,349 --> 00:54:43,200

would have had a limited chance of

1273

00:54:47,349 --> 00:54:45,359

working but uh i think they were worth

1274

00:54:48,789 --> 00:54:47,359

trying so things where you have to throw

1275

00:54:51,270 --> 00:54:48,799

together very quickly for a rocket on

1276

00:54:52,870 --> 00:54:51,280

other rockets not necessarily too

1277

00:54:54,150 --> 00:54:52,880

from a practical engineering standpoint

1278

00:54:55,990 --> 00:54:54,160

but it's doable

1279

00:54:57,030 --> 00:54:56,000

and uh i mean in this example we need to

1280

00:54:58,309 --> 00:54:57,040

have something like this in mind i mean

1281

00:55:00,470 --> 00:54:58,319

anyone who's ever read although c clark

1282

00:55:02,230 --> 00:55:00,480

swade ruth rama had to be looking at

1283

00:55:04,630 --> 00:55:02,240

that the whole time saying himself wow

1284

00:55:06,470 --> 00:55:04,640

this is exactly like the book we have to

1285

00:55:09,510 --> 00:55:06,480

go check this thing out i do feel like

1286

00:55:11,750 --> 00:55:09,520

it was a missed opportunity it was um

1287

00:55:14,710 --> 00:55:11,760

rendezvous with rama is all i could

1288

00:55:16,870 --> 00:55:14,720

think about uh and not only not only the

1289

00:55:19,270 --> 00:55:16,880

book and how it's laid out but the shape

1290

00:55:20,390 --> 00:55:19,280

of the object and how omumu was

1291

00:55:23,349 --> 00:55:20,400

presented

1292

00:55:26,470 --> 00:55:23,359

that was uh that was some nostradamus

1293

00:55:28,309 --> 00:55:26,480

stuff uh from arthur c clarke to to

1294

00:55:29,670 --> 00:55:28,319

actually have it happen here i wanted to

1295

00:55:32,069 --> 00:55:29,680

ask you really quick before we get to

1296

00:55:33,589 --> 00:55:32,079

the break pretty exciting day you know

1297

00:55:35,670 --> 00:55:33,599

with captain kirk

1298

00:55:37,990 --> 00:55:35,680

and and blue origins what did you think

1299

00:55:40,390 --> 00:55:38,000

of that and and the touchdown

1300

00:55:43,030 --> 00:55:40,400

i thought it was awesome that he finally

1301
00:55:44,630 --> 00:55:43,040
has a chance to go to space and uh you

1302
00:55:46,309 --> 00:55:44,640
know i i

1303
00:55:47,510 --> 00:55:46,319
i don't know i'm still a huge star trek

1304
00:55:48,950 --> 00:55:47,520
fan this day i still think that the

1305
00:55:50,710 --> 00:55:48,960
original series episodes are worth

1306
00:55:51,990 --> 00:55:50,720
watching and so it was one of those

1307
00:55:53,589 --> 00:55:52,000
touchy moments it reminded me a little

1308
00:55:55,270 --> 00:55:53,599
bit when the call got launched in space

1309
00:55:58,710 --> 00:55:55,280
too though oh

1310
00:56:01,109 --> 00:55:58,720
yeah yeah yeah yeah yeah yeah but uh

1311
00:56:02,390 --> 00:56:01,119
i can only imagine

1312
00:56:05,829 --> 00:56:02,400
uh for

1313
00:56:07,589 --> 00:56:05,839

for william uh after star trek and you

1314

00:56:10,069 --> 00:56:07,599

know where he is at

1315

00:56:11,910 --> 00:56:10,079

to sit there and wonder what it would be

1316

00:56:14,309 --> 00:56:11,920

like to go to space what it would be

1317

00:56:17,030 --> 00:56:14,319

like and he had decades to think about

1318

00:56:18,950 --> 00:56:17,040

it and when you get to 90 and you're

1319

00:56:20,549 --> 00:56:18,960

probably thinking it ain't gonna happen

1320

00:56:23,670 --> 00:56:20,559

but it did

1321

00:56:26,710 --> 00:56:23,680

and how much it must have meant to him

1322

00:56:29,430 --> 00:56:26,720

and we saw that today his emotions uh

1323

00:56:31,430 --> 00:56:29,440

just took over

1324

00:56:32,710 --> 00:56:31,440

he's uh i mean you know he's been an

1325

00:56:34,470 --> 00:56:32,720

idol for so many people for so many

1326

00:56:37,109 --> 00:56:34,480

years and that image of of space and

1327

00:56:38,710 --> 00:56:37,119

that frontier in space and i think i

1328

00:56:41,190 --> 00:56:38,720

know i was glad to see that it clearly

1329

00:56:43,430 --> 00:56:41,200

meant as much to him as you know i but

1330

00:56:45,349 --> 00:56:43,440

uh i know it was like when john glenn

1331

00:56:47,750 --> 00:56:45,359

went back up to space again i was like

1332

00:56:49,589 --> 00:56:47,760

20 years ago i'm from ohio so it was a

1333

00:56:50,390 --> 00:56:49,599

kind of extra special touching event you

1334

00:56:51,910 --> 00:56:50,400

knew

1335

00:56:55,430 --> 00:56:51,920

how much it meant to him to get to go to

1336

00:56:57,670 --> 00:56:55,440

space again finally and uh i think that

1337

00:56:59,190 --> 00:56:57,680

that's that's a lot like for today you

1338

00:57:00,870 --> 00:56:59,200

know and i'm still kind of passing

1339

00:57:02,789 --> 00:57:00,880

through it but uh right it was a very

1340

00:57:04,710 --> 00:57:02,799

good day it's another one of those

1341

00:57:06,069 --> 00:57:04,720

you know beacons and people often feel

1342

00:57:07,750 --> 00:57:06,079

like we're not making a lot of progress

1343

00:57:10,069 --> 00:57:07,760

in space and i can point to things like

1344

00:57:11,990 --> 00:57:10,079

that and sometimes the spacex lands a

1345

00:57:14,870 --> 00:57:12,000

spaceship which is still amazing me and

1346

00:57:16,870 --> 00:57:14,880

say yes we are we are making progress

1347

00:57:20,870 --> 00:57:16,880

slower than we'd like but we are making

1348

00:57:24,230 --> 00:57:20,880

progress out there he said one thing um

1349

00:57:26,230 --> 00:57:24,240

and i'm glad he he put it this way

1350

00:57:28,870 --> 00:57:26,240

um i don't know if i'm ever gonna go to

1351
00:57:31,190 --> 00:57:28,880
space i doubt it but he said one thing

1352
00:57:32,789 --> 00:57:31,200
that just stuck with he said

1353
00:57:34,549 --> 00:57:32,799
you look down

1354
00:57:37,109 --> 00:57:34,559
and it's blue

1355
00:57:41,030 --> 00:57:37,119
and you look up and it's black

1356
00:57:42,630 --> 00:57:41,040
and and the blue is like a blanket

1357
00:57:45,030 --> 00:57:42,640
and it was just like oh

1358
00:57:47,349 --> 00:57:45,040
you know what i mean it was it was what

1359
00:57:50,630 --> 00:57:47,359
an interesting take

1360
00:57:53,030 --> 00:57:50,640
and and how uh emotionally

1361
00:57:54,870 --> 00:57:53,040
that that was the thing that he

1362
00:57:57,750 --> 00:57:54,880
projected out first was that kind of

1363
00:57:59,030 --> 00:57:57,760

statement that was just great

1364

00:57:59,990 --> 00:57:59,040

it's nice to get the viewpoint for

1365

00:58:01,430 --> 00:58:00,000

anyone who's just not been a

1366

00:58:03,510 --> 00:58:01,440

professional astronaut training up for

1367

00:58:04,870 --> 00:58:03,520

that forever today too so

1368

00:58:07,109 --> 00:58:04,880

exactly

1369

00:58:11,349 --> 00:58:07,119

you know it's probably how i would say

1370

00:58:15,589 --> 00:58:11,359

it i look down blue i look up black

1371

00:58:18,630 --> 00:58:15,599

my god this planet's big yes exactly

1372

00:58:20,230 --> 00:58:18,640

absolutely incredible okay um when we

1373

00:58:22,710 --> 00:58:20,240

come back um

1374

00:58:24,470 --> 00:58:22,720

uh we're gonna jump into the uh the

1375

00:58:27,190 --> 00:58:24,480

physics of a tic tac

1376

00:58:29,190 --> 00:58:27,200

and you have uh

1377

00:58:33,109 --> 00:58:29,200

you presented

1378

00:58:36,069 --> 00:58:33,119

these ideas of of physics uh

1379

00:58:39,750 --> 00:58:36,079

interstellar travel faster than lights

1380

00:58:42,309 --> 00:58:39,760

uh different uh ideas and theories and

1381

00:58:44,789 --> 00:58:42,319

and propulsion systems you've spent a

1382

00:58:46,630 --> 00:58:44,799

lot of time on this

1383

00:58:48,470 --> 00:58:46,640

and we're going to set this up for when

1384

00:58:51,030 --> 00:58:48,480

we return

1385

00:58:54,150 --> 00:58:51,040

when you uh look at

1386

00:58:56,870 --> 00:58:54,160

uh the evidence that the navy has put

1387

00:58:57,829 --> 00:58:56,880

forward in the uap task force

1388

00:59:00,390 --> 00:58:57,839

um

1389

00:59:02,950 --> 00:59:00,400

the physics of this

1390

00:59:04,630 --> 00:59:02,960

what do you think i mean is this a

1391

00:59:06,470 --> 00:59:04,640

possibility we're going to do the deep

1392

00:59:08,789 --> 00:59:06,480

dive when we come back

1393

00:59:09,910 --> 00:59:08,799

but is it possible

1394

00:59:12,069 --> 00:59:09,920

for

1395

00:59:13,030 --> 00:59:12,079

the the characteristics of these tic

1396

00:59:15,670 --> 00:59:13,040

tacs

1397

00:59:17,990 --> 00:59:15,680

to happen

1398

00:59:19,430 --> 00:59:18,000

not with anything we have right now if

1399

00:59:20,789 --> 00:59:19,440

our estimates for the acceleration are

1400

00:59:23,030 --> 00:59:20,799

correct

1401
00:59:23,829 --> 00:59:23,040
although nothing manned anyway

1402
00:59:27,829 --> 00:59:23,839
yeah

1403
00:59:29,190 --> 00:59:27,839
because the numbers um as presented when

1404
00:59:32,150 --> 00:59:29,200
you're talking about these kinds of

1405
00:59:33,510 --> 00:59:32,160
g-forces and this kind of speed i was

1406
00:59:34,470 --> 00:59:33,520
talking about this last night on the

1407
00:59:36,950 --> 00:59:34,480
show

1408
00:59:39,190 --> 00:59:36,960
when you look at the data of our

1409
00:59:41,750 --> 00:59:39,200
hypersonic program

1410
00:59:44,630 --> 00:59:41,760
and russia's hypersonic missile program

1411
00:59:47,030 --> 00:59:44,640
as impressive as it is

1412
00:59:49,109 --> 00:59:47,040
it's slow right we're talking about

1413
00:59:52,309 --> 00:59:49,119

thousands of miles per hour

1414

00:59:54,470 --> 00:59:52,319

and what is happening with this tic tac

1415

00:59:55,910 --> 00:59:54,480

that's a totally different conversation

1416

00:59:57,670 --> 00:59:55,920

isn't it

1417

00:59:59,829 --> 00:59:57,680

it's at the very edge of what we could

1418

01:00:02,230 --> 00:59:59,839

reasonably do with an unmanned missile

1419

01:00:04,390 --> 01:00:02,240

on paper if if for the higher end

1420

01:00:06,309 --> 01:00:04,400

estimates uh it's

1421

01:00:07,589 --> 01:00:06,319

pretty dubious inside known physics to

1422

01:00:09,589 --> 01:00:07,599

do with anything that might be

1423

01:00:11,510 --> 01:00:09,599

complicated or human for those higher

1424

01:00:12,950 --> 01:00:11,520

end estimates at least yeah let's take

1425

01:00:15,150 --> 01:00:12,960

our break right here our guest tonight

1426

01:00:17,829 --> 01:00:15,160

the one and only isaac arthur

1427

01:00:19,670 --> 01:00:17,839

isaacarthur.net is his website the links

1428

01:00:21,910 --> 01:00:19,680

are over at jimmychurchradio.com and

1429

01:00:23,829 --> 01:00:21,920

throughout social media and go check out

1430

01:00:26,069 --> 01:00:23,839

his youtube channel if you haven't

1431

01:00:27,750 --> 01:00:26,079

already our email jimmy church this is

1432

01:00:29,740 --> 01:00:27,760

fade to black more with isaac when we

1433

01:00:46,260 --> 01:00:29,750

come back stay with us

1434

01:00:46,930 --> 01:00:46,270

[Music]

1435

01:00:54,870 --> 01:00:46,940

[Applause]

1436

01:00:57,030 --> 01:00:54,880

[Music]

1437

01:01:00,450 --> 01:00:57,040

this is fade to black with jimmy church

1438

01:01:02,309 --> 01:01:00,460

on the game changer radio network

1439

01:01:04,230 --> 01:01:02,319

[Music]

1440

01:01:07,510 --> 01:01:04,240

this is billy carson with forbidden

1441

01:01:09,430 --> 01:01:07,520

knowledge dot tv forbidden knowledge tv

1442

01:01:12,630 --> 01:01:09,440

has just reached its one year

1443

01:01:14,870 --> 01:01:12,640

anniversary that's right one year and as

1444

01:01:17,750 --> 01:01:14,880

a show of appreciation we are giving all

1445

01:01:20,789 --> 01:01:17,760

new subscribers a free 30-day trial of

1446

01:01:23,910 --> 01:01:20,799

forbidden knowledge dot tv that's 30

1447

01:01:26,470 --> 01:01:23,920

days to binge watch thousands of movies

1448

01:01:29,430 --> 01:01:26,480

documentaries conferences workshops

1449

01:01:32,069 --> 01:01:29,440

lectures yoga classes meditation courses

1450

01:01:34,390 --> 01:01:32,079

and so much more so log on to forbidden

1451

01:01:36,549 --> 01:01:34,400

knowledge dot tv from your computer or

1452

01:01:41,190 --> 01:01:36,559

mobile device or get the forbidden

1453

01:01:44,230 --> 01:01:41,200

knowledge tv app on apple tv roku amazon

1454

01:01:47,829 --> 01:01:44,240

itunes or google play today and use

1455

01:01:50,309 --> 01:01:47,839

coupon code 30 days free that's coupon

1456

01:01:55,190 --> 01:01:50,319

code 30 days free on forbidden knowledge

1457

01:01:59,430 --> 01:01:57,270

because you never got that pony you

1458

01:02:01,109 --> 01:01:59,440

always wanted

1459

01:02:03,510 --> 01:02:01,119

damn it

1460

01:02:08,069 --> 01:02:03,520

jimmy church and fade to black on the

1461

01:02:13,670 --> 01:02:11,270

listen i know and you know that you've

1462

01:02:15,910 --> 01:02:13,680

always wanted your first crystal skull

1463

01:02:18,069 --> 01:02:15,920

or maybe you're a collector just like me

1464

01:02:21,029 --> 01:02:18,079

but you just don't know where to go to

1465

01:02:22,710 --> 01:02:21,039

find the real thing then i met carolyn

1466

01:02:24,549 --> 01:02:22,720

ford over at einstein the

1467

01:02:27,029 --> 01:02:24,559

crystalskull.com

1468

01:02:28,950 --> 01:02:27,039

carolyn is the guardian of einstein one

1469

01:02:31,430 --> 01:02:28,960

of the most respected ancient crystal

1470

01:02:33,270 --> 01:02:31,440

skulls in the world all of her unique

1471

01:02:35,670 --> 01:02:33,280

skulls have been imprinted sitting with

1472

01:02:37,589 --> 01:02:35,680

einstein in his sacred lodge and are

1473

01:02:40,309 --> 01:02:37,599

carved from the finest gemstone and

1474

01:02:42,390 --> 01:02:40,319

materials imprinting is the process of

1475

01:02:45,910 --> 01:02:42,400

receiving the ancient wisdom from the

1476

01:02:48,390 --> 01:02:45,920

master skull or master computer einstein

1477

01:02:50,150 --> 01:02:48,400

the ancient crystal skull to see

1478

01:02:52,870 --> 01:02:50,160

carolyn's current collection of crystal

1479

01:02:55,190 --> 01:02:52,880

skulls just visit her store at einstein

1480

01:02:57,750 --> 01:02:55,200

the crystal skull dot com click on the

1481

01:03:00,390 --> 01:02:57,760

banner over on our site don't forget to

1482

01:03:03,109 --> 01:03:00,400

use the promo code jimmy at checkout to

1483

01:03:06,069 --> 01:03:03,119

receive 10 off of your order today

1484

01:03:08,950 --> 01:03:06,079

that's promo code jimmy finding your

1485

01:03:14,069 --> 01:03:08,960

first or next crystal skull is easy just

1486

01:03:18,870 --> 01:03:16,230

when you take the beans from central

1487

01:03:21,270 --> 01:03:18,880

america with dashes of indonesian and

1488

01:03:24,470 --> 01:03:21,280

african mixed in and then roasted to the

1489

01:03:26,950 --> 01:03:24,480

dark side of fade to black you create

1490

01:03:29,910 --> 01:03:26,960

the ultimate brew of fringe

1491

01:03:33,190 --> 01:03:29,920

introducing the fade to black blend from

1492

01:03:35,990 --> 01:03:33,200

river moon coffee yes river moon's

1493

01:03:38,789 --> 01:03:36,000

darkest customized roast was created for

1494

01:03:41,430 --> 01:03:38,799

the love of fade to black

1495

01:03:43,990 --> 01:03:41,440

the alchemy of masterful roasting and

1496

01:03:47,589 --> 01:03:44,000

smoking the beans is in every sip of

1497

01:03:50,549 --> 01:03:47,599

this full-bodied dark java i need my

1498

01:03:52,789 --> 01:03:50,559

coffee doc deep with distinct

1499

01:03:55,589 --> 01:03:52,799

bittersweet chocolate highlights just

1500

01:03:58,150 --> 01:03:55,599

like the bunker leaning further into the

1501
01:04:01,270 --> 01:03:58,160
darkness of the roast is fade to black

1502
01:04:03,430 --> 01:04:01,280
blend from river moon coffee just click

1503
01:04:07,109 --> 01:04:03,440
on the banner at jimmychurchradio.com

1504
01:04:16,710 --> 01:04:07,119
and use the promo code f2b blend for 15

1505
01:04:20,470 --> 01:04:18,630
hi this is ray sobs here repping the

1506
01:04:25,029 --> 01:04:20,480
planet and you're listening to my good

1507
01:04:27,270 --> 01:04:25,039
friend jimmy church fade to black

1508
01:04:29,349 --> 01:04:27,280
this is toby kebble you're listening to

1509
01:04:32,309 --> 01:04:29,359
jimmychurchradio.com

1510
01:04:34,309 --> 01:04:32,319
don't hurt me jimmy i'm only little hey

1511
01:04:42,230 --> 01:04:34,319
i'm adrienne grenier and this is ari

1512
01:04:46,069 --> 01:04:43,829
we're the honey brothers

1513
01:04:47,670 --> 01:04:46,079

and you're listening to jimmy church a

1514

01:04:49,349 --> 01:04:47,680

revolution

1515

01:04:51,270 --> 01:04:49,359

this is jimmy churchill fade to black

1516

01:04:53,589 --> 01:04:51,280

and you can become an official fate or

1517

01:04:54,549 --> 01:04:53,599

not by just going to our membership

1518

01:04:57,910 --> 01:04:54,559

section

1519

01:05:02,230 --> 01:04:59,910

hello this is serena wright taylor from

1520

01:05:04,630 --> 01:05:02,240

conscious life expo and you're listening

1521

01:05:06,950 --> 01:05:04,640

to fade to black with jimmy church who

1522

01:05:10,549 --> 01:05:06,960

holds the lucky pony record for the best

1523

01:05:12,390 --> 01:05:10,559

astrological chart since 1963. true

1524

01:05:14,069 --> 01:05:12,400

story

1525

01:05:15,750 --> 01:05:14,079

this is micah hanks of the ghrelian

1526

01:05:17,670 --> 01:05:15,760

report and you're listening to jimmy

1527

01:05:24,280 --> 01:05:17,680

church on fade to black

1528

01:05:24,290 --> 01:05:38,710

[Music]

1529

01:05:42,390 --> 01:05:40,309

welcome back fade to black i am your

1530

01:05:44,630 --> 01:05:42,400

host jimmy church tonight isaac arthur

1531

01:05:46,230 --> 01:05:44,640

is with us

1532

01:05:48,390 --> 01:05:46,240

the physics

1533

01:05:49,270 --> 01:05:48,400

of a tic tac we're gonna get into all of

1534

01:05:50,870 --> 01:05:49,280

that

1535

01:05:52,630 --> 01:05:50,880

and uh

1536

01:05:54,309 --> 01:05:52,640

uh tomorrow night is fader night with

1537

01:05:56,230 --> 01:05:54,319

open lines all night long so you're not

1538

01:05:59,270 --> 01:05:56,240

gonna want to miss that and

1539

01:06:02,950 --> 01:05:59,280

but uh isaac this is uh

1540

01:06:06,390 --> 01:06:02,960

this is a zone right now uh uh getting

1541

01:06:09,349 --> 01:06:06,400

into this that is especially in

1542

01:06:10,549 --> 01:06:09,359

uh the ufo community in the ufo circles

1543

01:06:14,390 --> 01:06:10,559

this is

1544

01:06:17,990 --> 01:06:14,400

and

1545

01:06:20,309 --> 01:06:18,000

there are those in uh the ufo community

1546

01:06:22,549 --> 01:06:20,319

that have been waiting for

1547

01:06:23,750 --> 01:06:22,559

uh government participation in this

1548

01:06:26,710 --> 01:06:23,760

subject

1549

01:06:29,349 --> 01:06:26,720

and and then bringing stuff forward and

1550

01:06:33,430 --> 01:06:29,359

it's happening at a very fast clip

1551

01:06:36,069 --> 01:06:33,440

and the other side of it is uh you know

1552

01:06:38,710 --> 01:06:36,079

discussing really what we are talking

1553

01:06:39,829 --> 01:06:38,720

about here in the physics side of it

1554

01:06:44,470 --> 01:06:39,839

the

1555

01:06:45,430 --> 01:06:44,480

is that uh

1556

01:06:47,990 --> 01:06:45,440

uh

1557

01:06:50,309 --> 01:06:48,000

the uap task force report that was

1558

01:06:51,270 --> 01:06:50,319

released back on june 25th

1559

01:06:52,230 --> 01:06:51,280

said

1560

01:06:53,829 --> 01:06:52,240

this

1561

01:06:55,990 --> 01:06:53,839

i'm paraphrasing

1562

01:06:58,069 --> 01:06:56,000

but they said

1563

01:06:59,910 --> 01:06:58,079

isaac is drinking coffee by the way

1564

01:07:01,829 --> 01:06:59,920

that's what everybody was listening to

1565

01:07:03,990 --> 01:07:01,839

hey hold up your mug what what does your

1566

01:07:06,069 --> 01:07:04,000

mug say

1567

01:07:08,069 --> 01:07:06,079

uh it says if brute force isn't working

1568

01:07:09,750 --> 01:07:08,079

you won't use enough of it besides the

1569

01:07:11,430 --> 01:07:09,760

future is advising although

1570

01:07:13,190 --> 01:07:11,440

i've got to get me one of those t-shirts

1571

01:07:18,390 --> 01:07:13,200

by the way um

1572

01:07:20,789 --> 01:07:18,400

so um is this uh the uap task force said

1573

01:07:23,670 --> 01:07:20,799

it's not ours

1574

01:07:27,349 --> 01:07:23,680

it's not a foreign adversary

1575

01:07:29,109 --> 01:07:27,359

so that leaves it in a third category

1576

01:07:30,870 --> 01:07:29,119

and we're calling it

1577

01:07:32,069 --> 01:07:30,880

other

1578

01:07:34,150 --> 01:07:32,079

now

1579

01:07:35,349 --> 01:07:34,160

and judging from what you just said

1580

01:07:38,390 --> 01:07:35,359

right

1581

01:07:39,270 --> 01:07:38,400

it is beyond what we could do even on

1582

01:07:45,190 --> 01:07:39,280

paper

1583

01:07:47,670 --> 01:07:45,200

but that is a very interesting take uh

1584

01:07:50,789 --> 01:07:47,680

from our department of defense

1585

01:07:54,150 --> 01:07:50,799

uh to say that it's not us

1586

01:07:57,349 --> 01:07:54,160

well that's a head scratcher okay

1587

01:07:59,990 --> 01:07:57,359

let's let's talk about going from uh the

1588

01:08:01,990 --> 01:08:00,000

radar signatures uh

1589

01:08:06,069 --> 01:08:02,000

uh stating that

1590

01:08:09,349 --> 01:08:06,079

uh kevin day who was manning the spy one

1591

01:08:11,750 --> 01:08:09,359

uh radar on the uss princeton was on

1592

01:08:13,750 --> 01:08:11,760

with us last week on the show

1593

01:08:17,669 --> 01:08:13,760

and he says

1594

01:08:21,590 --> 01:08:17,679

that uh they were at a sub-orbital

1595

01:08:25,269 --> 01:08:21,600

altitude of around 80 000 feet and went

1596

01:08:27,990 --> 01:08:25,279

from 80 000 feet to twenty eight

1597

01:08:31,749 --> 01:08:28,000

thousand feet where they staged and

1598

01:08:32,950 --> 01:08:31,759

there were approximately ten objects

1599

01:08:35,030 --> 01:08:32,960

um

1600

01:08:39,669 --> 01:08:35,040

uh came down to twenty eight thousand

1601
01:08:41,430 --> 01:08:39,679
feet in point seven seconds

1602
01:08:43,590 --> 01:08:41,440
now

1603
01:08:45,829 --> 01:08:43,600
let's start right there how is that

1604
01:08:47,349 --> 01:08:45,839
possible

1605
01:08:49,030 --> 01:08:47,359
not with anything we've got right now

1606
01:08:50,229 --> 01:08:49,040
but let's let's see if this was true and

1607
01:08:52,470 --> 01:08:50,239
mind you that could be instrumental

1608
01:08:54,390 --> 01:08:52,480
reading or bad observation but if it's

1609
01:08:55,910 --> 01:08:54,400
true and he's on the mark that's that

1610
01:08:57,510 --> 01:08:55,920
higher investments we start talking

1611
01:09:01,269 --> 01:08:57,520
about being able to do accelerations of

1612
01:09:03,349 --> 01:09:01,279
as much as 5000 g as opposed to 10 like

1613
01:09:04,470 --> 01:09:03,359

the best jet fighter might and that's

1614

01:09:05,910 --> 01:09:04,480

also we start getting the point of

1615

01:09:08,470 --> 01:09:05,920

saying this thing has to have had a

1616

01:09:11,189 --> 01:09:08,480

power available to it of something like

1617

01:09:13,349 --> 01:09:11,199

a thousand gigawatts which again nuclear

1618

01:09:15,189 --> 01:09:13,359

power plants about one to two and like

1619

01:09:16,789 --> 01:09:15,199

the shuttle when it launches when it

1620

01:09:18,470 --> 01:09:16,799

leaves that gigantic flame that shakes

1621

01:09:20,470 --> 01:09:18,480

everything from miles around that's

1622

01:09:21,990 --> 01:09:20,480

about 12 gigawatts so we talked about

1623

01:09:23,669 --> 01:09:22,000

something that would be at least 100

1624

01:09:25,669 --> 01:09:23,679

times more powerful

1625

01:09:26,950 --> 01:09:25,679

to pull that maneuver off than what the

1626

01:09:28,309 --> 01:09:26,960

shuttle would do

1627

01:09:29,749 --> 01:09:28,319

so that's the kind of power it has to

1628

01:09:31,110 --> 01:09:29,759

have available now on the other side

1629

01:09:32,950 --> 01:09:31,120

that is kind of the power you'd expect

1630

01:09:34,950 --> 01:09:32,960

us you know install a spaceship to have

1631

01:09:36,390 --> 01:09:34,960

available to it so

1632

01:09:38,390 --> 01:09:36,400

it's if we're going into the zone of

1633

01:09:39,349 --> 01:09:38,400

assuming that that's what we saw and i

1634

01:09:41,349 --> 01:09:39,359

would dispute that that's not

1635

01:09:42,709 --> 01:09:41,359

necessarily what we did see but if that

1636

01:09:44,229 --> 01:09:42,719

is what we're saying it is for the

1637

01:09:46,070 --> 01:09:44,239

moment that's the kind of power we're

1638

01:09:47,910 --> 01:09:46,080

looking at something capable of doing

1639

01:09:50,870 --> 01:09:47,920

thousands of g's of acceleration and

1640

01:09:52,789 --> 01:09:50,880

thousands of gigawatts of tony power

1641

01:09:54,390 --> 01:09:52,799

and that's if it's just as light as the

1642

01:09:57,030 --> 01:09:54,400

aircraft is it was heavier than that

1643

01:09:58,390 --> 01:09:57,040

which could be even more power

1644

01:10:01,110 --> 01:09:58,400

now i totally might just use some

1645

01:10:02,630 --> 01:10:01,120

completely unknown physics too so which

1646

01:10:04,630 --> 01:10:02,640

is not better

1647

01:10:07,110 --> 01:10:04,640

right right okay so let's stay right

1648

01:10:08,149 --> 01:10:07,120

there for a second um

1649

01:10:12,950 --> 01:10:08,159

kevin

1650

01:10:15,189 --> 01:10:12,960

stated that the spy one uh radar system

1651
01:10:16,950 --> 01:10:15,199
which is the most advanced radar system

1652
01:10:19,430 --> 01:10:16,960
on the planet

1653
01:10:23,189 --> 01:10:19,440
this was observed

1654
01:10:24,870 --> 01:10:23,199
from multiple ships it wasn't just one

1655
01:10:29,510 --> 01:10:24,880
radar system

1656
01:10:32,870 --> 01:10:29,520
so it was seen this way of uh

1657
01:10:35,270 --> 01:10:32,880
with multiple spy-1 radar systems but

1658
01:10:37,750 --> 01:10:35,280
combined with that

1659
01:10:39,990 --> 01:10:37,760
was the visual contact

1660
01:10:43,350 --> 01:10:40,000
that the pilots made

1661
01:10:46,470 --> 01:10:43,360
he also observed this he went uh

1662
01:10:47,430 --> 01:10:46,480
uh from uh below deck with the radar uh

1663
01:10:50,390 --> 01:10:47,440

room

1664

01:10:51,830 --> 01:10:50,400

and he was the commander of the radar

1665

01:10:53,110 --> 01:10:51,840

room he's the guy walking in the

1666

01:10:56,709 --> 01:10:53,120

background

1667

01:10:59,990 --> 01:10:56,719

uh behind the radar operators um and

1668

01:11:02,550 --> 01:11:00,000

he's commanding uh his crew he went

1669

01:11:05,510 --> 01:11:02,560

above deck got on uh i forget what they

1670

01:11:08,149 --> 01:11:05,520

call the the big binoculars right

1671

01:11:09,669 --> 01:11:08,159

and and he copped a visual and and he

1672

01:11:12,390 --> 01:11:09,679

was watching these

1673

01:11:15,910 --> 01:11:12,400

uh from a great distance um

1674

01:11:19,430 --> 01:11:15,920

so it's not just the spy one but you

1675

01:11:20,630 --> 01:11:19,440

have the eyewitness accounts from the

1676

01:11:22,870 --> 01:11:20,640

pilots

1677

01:11:25,510 --> 01:11:22,880

so it doesn't appear to be

1678

01:11:27,910 --> 01:11:25,520

uh listen i'm a skeptic on all of this

1679

01:11:29,990 --> 01:11:27,920

because it's too extraordinary but you

1680

01:11:31,830 --> 01:11:30,000

had the combination of

1681

01:11:33,910 --> 01:11:31,840

uh human

1682

01:11:35,830 --> 01:11:33,920

eyeballs and

1683

01:11:36,630 --> 01:11:35,840

and the radar data

1684

01:11:37,750 --> 01:11:36,640

now

1685

01:11:40,709 --> 01:11:37,760

what do we

1686

01:11:42,070 --> 01:11:40,719

how do you approach that well i don't

1687

01:11:43,510 --> 01:11:42,080

know that we actually got to see the

1688

01:11:45,189 --> 01:11:43,520

real radar data itself one of the

1689

01:11:47,189 --> 01:11:45,199

problems we have a lot of the data from

1690

01:11:49,350 --> 01:11:47,199

the from the navy is

1691

01:11:50,550 --> 01:11:49,360

uh well say we don't really tend to

1692

01:11:52,709 --> 01:11:50,560

trust the government too much when it

1693

01:11:54,470 --> 01:11:52,719

comes to involving ufos and for good

1694

01:11:56,390 --> 01:11:54,480

reason if we're not assuming they're

1695

01:11:57,990 --> 01:11:56,400

hiding them we also they're not going to

1696

01:11:59,510 --> 01:11:58,000

actually show us in a lot of cases

1697

01:12:01,669 --> 01:11:59,520

anything that's going to reveal the edge

1698

01:12:02,790 --> 01:12:01,679

of our technology to the opposition you

1699

01:12:04,709 --> 01:12:02,800

don't want them to know exactly what

1700

01:12:06,470 --> 01:12:04,719

your aperture speed is or what that

1701

01:12:08,149 --> 01:12:06,480

trick is that causes like we saw with

1702

01:12:10,070 --> 01:12:08,159

gimbal assuming we assumed the one

1703

01:12:12,470 --> 01:12:10,080

interpretation of the gimbal one uh the

1704

01:12:15,110 --> 01:12:12,480

camera to mess up and lose track right

1705

01:12:16,630 --> 01:12:15,120

um so the radar data i don't know that

1706

01:12:18,630 --> 01:12:16,640

we've really gotten to see that exactly

1707

01:12:19,910 --> 01:12:18,640

let's see what the arizona would be i do

1708

01:12:21,430 --> 01:12:19,920

know that from what we can see from the

1709

01:12:23,270 --> 01:12:21,440

image for instance we can come with a

1710

01:12:25,189 --> 01:12:23,280

couple different contradictory values

1711

01:12:27,669 --> 01:12:25,199

what the acceleration might be some of

1712

01:12:28,709 --> 01:12:27,679

which are as low as like 70g

1713

01:12:30,870 --> 01:12:28,719

which is

1714

01:12:33,110 --> 01:12:30,880

nothing we have right now but is in the

1715

01:12:35,110 --> 01:12:33,120

zone of what we could make for a missile

1716

01:12:37,270 --> 01:12:35,120

an unmanned one at that

1717

01:12:39,110 --> 01:12:37,280

but uh again

1718

01:12:40,709 --> 01:12:39,120

there's not enough unless we actually

1719

01:12:42,950 --> 01:12:40,719

have the raw data ourselves and we know

1720

01:12:44,950 --> 01:12:42,960

it's the raw data i'm hesitant to say

1721

01:12:46,070 --> 01:12:44,960

that we can look at it with

1722

01:12:47,910 --> 01:12:46,080

confidence

1723

01:12:49,270 --> 01:12:47,920

because again this got delayed so long

1724

01:12:51,510 --> 01:12:49,280

probably because i would guess the navy

1725

01:12:52,950 --> 01:12:51,520

was wine to edit out anything that would

1726

01:12:53,990 --> 01:12:52,960

cause them problems or at least wait

1727

01:12:55,510 --> 01:12:54,000

till it wasn't going to cause them

1728

01:12:57,750 --> 01:12:55,520

problems with releasing

1729

01:13:00,470 --> 01:12:57,760

you know concealed sensitive you know

1730

01:13:02,709 --> 01:13:00,480

vital technology to the opposition

1731

01:13:05,030 --> 01:13:02,719

but uh was that what the actual real

1732

01:13:07,830 --> 01:13:05,040

radar said that's what the guy thinks it

1733

01:13:09,430 --> 01:13:07,840

says and it's his system i betcha he's

1734

01:13:11,590 --> 01:13:09,440

probably not lying and i bet you he

1735

01:13:13,430 --> 01:13:11,600

knows it pretty well so i would say that

1736

01:13:14,870 --> 01:13:13,440

the radar he could be mistaken but i

1737

01:13:17,030 --> 01:13:14,880

suspect we'll get an honest assessment

1738

01:13:20,310 --> 01:13:17,040

of what they think the radar said and

1739

01:13:23,110 --> 01:13:20,320

and the radar uh uh did this over and

1740

01:13:25,110 --> 01:13:23,120

over again this wasn't one isolated

1741

01:13:26,790 --> 01:13:25,120

incident no that's what we can't just

1742

01:13:28,229 --> 01:13:26,800

say it was like one incoming meteor that

1743

01:13:30,870 --> 01:13:28,239

exploded or something like that right

1744

01:13:33,350 --> 01:13:30,880

right right and which i find i find that

1745

01:13:35,030 --> 01:13:33,360

very very compelling

1746

01:13:37,590 --> 01:13:35,040

um i

1747

01:13:40,310 --> 01:13:37,600

uh and just to be clear here with you

1748

01:13:43,590 --> 01:13:40,320

isaac uh my audience already knows this

1749

01:13:45,750 --> 01:13:43,600

i don't believe that the three videos uh

1750

01:13:48,149 --> 01:13:45,760

released uh that are out there the

1751

01:13:50,630 --> 01:13:48,159

gimbal uh tic tac in the go fast i don't

1752

01:13:54,870 --> 01:13:50,640

think that those show anything

1753

01:13:57,590 --> 01:13:54,880

um i i i i'm not convinced of that it it

1754

01:14:01,270 --> 01:13:57,600

doesn't match up with the radar

1755

01:14:03,189 --> 01:14:01,280

uh and uh the human uh the eyewitness

1756

01:14:04,390 --> 01:14:03,199

testimony that it's like it's two

1757

01:14:05,990 --> 01:14:04,400

different things

1758

01:14:08,310 --> 01:14:06,000

yeah i generally tend to think flow is

1759

01:14:10,229 --> 01:14:08,320

the only one that was significant to me

1760

01:14:12,709 --> 01:14:10,239

gimble and go fast are both

1761

01:14:13,990 --> 01:14:12,719

pretty clear data arrows or weather blue

1762

01:14:15,270 --> 01:14:14,000

i would say state of weather balloon but

1763

01:14:17,189 --> 01:14:15,280

there are actually like thousands of

1764

01:14:18,709 --> 01:14:17,199

weather balloons i think go faster with

1765

01:14:21,590 --> 01:14:18,719

a weather balloon

1766

01:14:22,950 --> 01:14:21,600

yeah it you know uh yeah you had to say

1767

01:14:25,510 --> 01:14:22,960

weather balloon

1768

01:14:27,189 --> 01:14:25,520

i know i know you just had to go there

1769

01:14:30,470 --> 01:14:27,199

but um

1770

01:14:32,070 --> 01:14:30,480

uh this is the other uh

1771

01:14:35,669 --> 01:14:32,080

the other point

1772

01:14:37,990 --> 01:14:35,679

when the radar data is showing these uh

1773

01:14:39,830 --> 01:14:38,000

objects coming down and they and and

1774

01:14:41,590 --> 01:14:39,840

kevin day who was on the show with us

1775

01:14:46,310 --> 01:14:41,600

last monday it was a great show you

1776

01:14:49,430 --> 01:14:46,320

should listen to it um kevin uh uh then

1777

01:14:52,229 --> 01:14:49,440

orders uh flights to take place

1778

01:14:55,590 --> 01:14:52,239

and uh commander fravor and alex

1779

01:14:56,550 --> 01:14:55,600

dietrich his wing person she's a she uh

1780

01:14:59,030 --> 01:14:56,560

alex

1781

01:15:00,630 --> 01:14:59,040

um they take off and they head out to

1782

01:15:01,510 --> 01:15:00,640

this location

1783

01:15:06,790 --> 01:15:01,520

and

1784

01:15:08,830 --> 01:15:06,800

the tic tac which he described as

1785

01:15:12,550 --> 01:15:08,840

uh 40 feet

1786

01:15:15,990 --> 01:15:12,560

long round no appendages

1787

01:15:18,070 --> 01:15:16,000

no propulsion no noise

1788

01:15:21,110 --> 01:15:18,080

no wings nothing like that

1789

01:15:23,590 --> 01:15:21,120

it looked like a 40-foot tic-tac

1790

01:15:28,310 --> 01:15:23,600

now we've got a visual

1791

01:15:31,189 --> 01:15:28,320

of what was uh identified on radar

1792

01:15:33,669 --> 01:15:31,199

to hear that description coming from him

1793

01:15:35,830 --> 01:15:33,679

uh and with all of your knowledge uh

1794

01:15:40,070 --> 01:15:35,840

what did you what did you think of his

1795

01:15:41,990 --> 01:15:40,080

eyewitness account um again the guy is

1796

01:15:43,990 --> 01:15:42,000

an expert at his field though i will as

1797

01:15:45,189 --> 01:15:44,000

always say i mean i was feared artillery

1798

01:15:46,790 --> 01:15:45,199

well i was supposed to be trained how to

1799

01:15:48,390 --> 01:15:46,800

spot things a certain distance and we're

1800

01:15:50,310 --> 01:15:48,400

pretty good at it we used to make

1801
01:15:52,470 --> 01:15:50,320
mistakes all the time you know i'd watch

1802
01:15:55,350 --> 01:15:52,480
people be off by miles and i did it

1803
01:15:57,350 --> 01:15:55,360
myself too so the eyewitness account is

1804
01:15:59,350 --> 01:15:57,360
strong but not necessarily compelling

1805
01:16:00,709 --> 01:15:59,360
here i think remember he says fravos

1806
01:16:02,149 --> 01:16:00,719
case we had the data from that had

1807
01:16:04,630 --> 01:16:02,159
indicated the radar on that was that it

1808
01:16:06,310 --> 01:16:04,640
could be 150 g's i've never seen that

1809
01:16:07,830 --> 01:16:06,320
for people on top though creator saw

1810
01:16:09,189 --> 01:16:07,840
that to double check that and he had the

1811
01:16:11,430 --> 01:16:09,199
visual on that and the radar on his

1812
01:16:13,990 --> 01:16:11,440
particular case it's a strong case but

1813
01:16:16,630 --> 01:16:14,000

it's one way or based on his only it

1814

01:16:18,310 --> 01:16:16,640

could be a missile not one of ours not

1815

01:16:19,510 --> 01:16:18,320

one of the other guys that we know of

1816

01:16:20,790 --> 01:16:19,520

but it's in the zone of something that

1817

01:16:21,830 --> 01:16:20,800

would be buildable from whether he

1818

01:16:22,550 --> 01:16:21,840

wanted to

1819

01:16:27,270 --> 01:16:22,560

so

1820

01:16:29,510 --> 01:16:27,280

what was it he doesn't know i don't know

1821

01:16:31,270 --> 01:16:29,520

it is that one at least his sighting

1822

01:16:33,669 --> 01:16:31,280

is inside the area of what we might be

1823

01:16:34,790 --> 01:16:33,679

able to build based on my own opinion

1824

01:16:36,790 --> 01:16:34,800

the other stuff with the coming down

1825

01:16:38,470 --> 01:16:36,800

from the sky at the same time with the

1826

01:16:40,630 --> 01:16:38,480

radar returns with the stuff hovering in

1827

01:16:42,310 --> 01:16:40,640

the air with the tones of off of that

1828

01:16:44,790 --> 01:16:42,320

doesn't fit the picture as well though

1829

01:16:46,709 --> 01:16:44,800

so i those i can't really tack up and

1830

01:16:49,270 --> 01:16:46,719

say that's something we could build but

1831

01:16:50,870 --> 01:16:49,280

with what he witnessed specifically that

1832

01:16:52,790 --> 01:16:50,880

one might be buildable

1833

01:16:54,870 --> 01:16:52,800

and again for all these we're assuming

1834

01:16:57,350 --> 01:16:54,880

that these are honest witnesses and that

1835

01:16:59,750 --> 01:16:57,360

they are expert witnesses those are both

1836

01:17:03,430 --> 01:16:59,760

debatable but i'm not going to so right

1837

01:17:04,630 --> 01:17:03,440

and so uh the the other uh

1838

01:17:07,430 --> 01:17:04,640

part of this

1839

01:17:10,310 --> 01:17:07,440
is he gets into sort of a dog fight

1840

01:17:11,270 --> 01:17:10,320
right he goes into uh a spiral

1841

01:17:13,669 --> 01:17:11,280
uh

1842

01:17:17,910 --> 01:17:13,679
down you know looking at the tic tac it

1843

01:17:19,590 --> 01:17:17,920
is above uh the ocean uh at sea level he

1844

01:17:21,669 --> 01:17:19,600
and then this thing takes off and it's

1845

01:17:24,550 --> 01:17:21,679
like following him

1846

01:17:26,310 --> 01:17:24,560
in the spiral alex dietrich is watching

1847

01:17:28,709 --> 01:17:26,320
this and then

1848

01:17:30,870 --> 01:17:28,719
he describes it as

1849

01:17:32,390 --> 01:17:30,880
taking off like that

1850

01:17:35,110 --> 01:17:32,400
and is gone

1851

01:17:36,790 --> 01:17:35,120

and we you know within a second

1852

01:17:38,390 --> 01:17:36,800

now

1853

01:17:39,830 --> 01:17:38,400

it's one thing and i understand what

1854

01:17:42,310 --> 01:17:39,840

you're saying because i'm with you on

1855

01:17:45,270 --> 01:17:42,320

this could this be our technology

1856

01:17:47,030 --> 01:17:45,280

in the spiral this wasn't maximum g's

1857

01:17:49,830 --> 01:17:47,040

this wasn't crazy

1858

01:17:52,870 --> 01:17:49,840

uh crazy stuff it was just a circular

1859

01:17:55,990 --> 01:17:52,880

motion with this tic tac um

1860

01:17:58,229 --> 01:17:56,000

under some kind of intelligent control

1861

01:18:00,550 --> 01:17:58,239

because it is following him then it

1862

01:18:03,590 --> 01:18:00,560

stops and then takes off disappears over

1863

01:18:05,910 --> 01:18:03,600

the horizon and it's gone under a second

1864

01:18:07,910 --> 01:18:05,920

uh again let's talk about the physics of

1865

01:18:10,149 --> 01:18:07,920

something like that if his

1866

01:18:14,070 --> 01:18:10,159

if what he saw was

1867

01:18:15,830 --> 01:18:14,080

was what he saw how was that possible

1868

01:18:17,189 --> 01:18:15,840

well i'm gonna spin something up just

1869

01:18:19,030 --> 01:18:17,199

off the top of my head and let's say it

1870

01:18:20,550 --> 01:18:19,040

was like a tank sabo it's a missile

1871

01:18:22,550 --> 01:18:20,560

whose job is getting the position turn

1872

01:18:24,709 --> 01:18:22,560

on an angle and then fire another really

1873

01:18:26,630 --> 01:18:24,719

fast shot like a rail gun out of it or

1874

01:18:29,350 --> 01:18:26,640

another sub rocket that could cause that

1875

01:18:31,270 --> 01:18:29,360

kind of visual effect this has been

1876

01:18:32,630 --> 01:18:31,280

at least less likely that he himself is

1877

01:18:34,229 --> 01:18:32,640

suggesting there this is off the top of

1878

01:18:35,750 --> 01:18:34,239

my head but that's how you can get that

1879

01:18:38,310 --> 01:18:35,760

kind of characteristic a secondary

1880

01:18:40,229 --> 01:18:38,320

vehicle or bullet in this case launches

1881

01:18:42,390 --> 01:18:40,239

anyone seen tracer fire out of a gun

1882

01:18:44,630 --> 01:18:42,400

those those can look like well you they

1883

01:18:46,550 --> 01:18:44,640

look like a laser beam practically right

1884

01:18:48,390 --> 01:18:46,560

you could have something like that take

1885

01:18:50,310 --> 01:18:48,400

a shot and bullets can undergo thousands

1886

01:18:52,149 --> 01:18:50,320

of g's of acceleration that was

1887

01:18:53,590 --> 01:18:52,159

basically just getting into position and

1888

01:18:55,110 --> 01:18:53,600

fired and that is something we've

1889

01:18:57,030 --> 01:18:55,120

discussed as a potential weapon system

1890

01:18:59,110 --> 01:18:57,040

before you send the missile out in the

1891

01:19:00,950 --> 01:18:59,120

given direction and then it uses main

1892

01:19:02,790 --> 01:19:00,960

fuel or it's whole package basically

1893

01:19:05,030 --> 01:19:02,800

with tank saber on something else it

1894

01:19:06,310 --> 01:19:05,040

fires a shot at an angle i think david

1895

01:19:08,310 --> 01:19:06,320

weber used to like to do that with

1896

01:19:09,590 --> 01:19:08,320

spaceships they'd send the device out

1897

01:19:11,350 --> 01:19:09,600

and it was a missile but it actually

1898

01:19:13,270 --> 01:19:11,360

exploded near the ship and shot a beam

1899

01:19:14,870 --> 01:19:13,280

in from a direction different direction

1900

01:19:17,590 --> 01:19:14,880

to cause it to get around things shields

1901

01:19:19,030 --> 01:19:17,600

for instance or frontal armor i have no

1902

01:19:21,030 --> 01:19:19,040

idea if that's anything like that like

1903

01:19:22,470 --> 01:19:21,040

i'm spinning out of nowhere but that's

1904

01:19:23,750 --> 01:19:22,480

one of the ways you would get that weird

1905

01:19:25,189 --> 01:19:23,760

kind of characteristic of it acting

1906

01:19:27,350 --> 01:19:25,199

normally and do you say that would seem

1907

01:19:28,470 --> 01:19:27,360

impossible for that vehicle one second

1908

01:19:30,390 --> 01:19:28,480

earlier

1909

01:19:31,750 --> 01:19:30,400

now so it turns it spins and it shoots a

1910

01:19:33,189 --> 01:19:31,760

shot out and that's what we see the

1911

01:19:34,310 --> 01:19:33,199

vehicle is depowered now so you don't

1912

01:19:36,950 --> 01:19:34,320

see it the best way because it just

1913

01:19:38,470 --> 01:19:36,960

falls down or something like that does

1914

01:19:41,030 --> 01:19:38,480

this uh

1915

01:19:43,030 --> 01:19:41,040

smell let's get into the smell test does

1916

01:19:43,830 --> 01:19:43,040

this smell of

1917

01:19:46,550 --> 01:19:43,840

uh

1918

01:19:48,870 --> 01:19:46,560

an anti-gravity type of propulsion

1919

01:19:52,149 --> 01:19:48,880

system if you don't have wings you don't

1920

01:19:53,510 --> 01:19:52,159

have air foils you don't have a rocket

1921

01:19:56,390 --> 01:19:53,520

engine coming out of the back you don't

1922

01:19:57,510 --> 01:19:56,400

have flames you don't have any of that

1923

01:20:01,430 --> 01:19:57,520

is this

1924

01:20:02,709 --> 01:20:01,440

uh some type of anti-gravity technology

1925

01:20:03,830 --> 01:20:02,719

there's always a possibility on

1926

01:20:05,669 --> 01:20:03,840

something like this when you're talking

1927

01:20:07,110 --> 01:20:05,679

about technologies you don't have even

1928

01:20:09,110 --> 01:20:07,120

on the drawing board trying to see what

1929

01:20:10,390 --> 01:20:09,120

they could it couldn't be as tricky but

1930

01:20:12,390 --> 01:20:10,400

if you have no rocket flame that's

1931

01:20:13,750 --> 01:20:12,400

causing acceleration your options are

1932

01:20:15,750 --> 01:20:13,760

essentially it's pushing against

1933

01:20:18,229 --> 01:20:15,760

something gravity or magnetically both

1934

01:20:20,229 --> 01:20:18,239

of those options uh it's pushing you

1935

01:20:21,990 --> 01:20:20,239

using some unknown force of course it's

1936

01:20:24,070 --> 01:20:22,000

firing neutrinos out the back side of it

1937

01:20:25,270 --> 01:20:24,080

that's a possibility too it's firing

1938

01:20:27,030 --> 01:20:25,280

something that's not visible with the

1939

01:20:28,310 --> 01:20:27,040

eye and doesn't cause an obvious ripple

1940

01:20:30,310 --> 01:20:28,320

effect in the air around it which

1941

01:20:32,550 --> 01:20:30,320

nutrients the example of neutrinos make

1942

01:20:33,990 --> 01:20:32,560

a great drive system uh it could be

1943

01:20:35,669 --> 01:20:34,000

firing dark matter out the back of it

1944

01:20:37,270 --> 01:20:35,679

that would do the same effect too it

1945

01:20:38,790 --> 01:20:37,280

could be firing tiny little micro black

1946

01:20:41,350 --> 01:20:38,800

holes out the back but there's a lot of

1947

01:20:43,110 --> 01:20:41,360

options for potential proportion system

1948

01:20:44,550 --> 01:20:43,120

that we wouldn't see ourselves and which

1949

01:20:47,030 --> 01:20:44,560

wouldn't have an obvious effect on the

1950

01:20:47,990 --> 01:20:47,040

air around it or one of our detectors

1951

01:20:51,189 --> 01:20:48,000

um

1952

01:20:52,070 --> 01:20:51,199

gravitic drive that would that be

1953

01:20:55,430 --> 01:20:52,080

something equivalent to drive

1954

01:20:57,110 --> 01:20:55,440

potentially do potentially yeah uh again

1955

01:21:00,149 --> 01:20:57,120

technologies we don't have we can't talk

1956

01:21:01,350 --> 01:21:00,159

about too much with real detail um one

1957

01:21:03,430 --> 01:21:01,360

thing that always has to get in mind

1958

01:21:05,189 --> 01:21:03,440

though is if you're under known physics

1959

01:21:06,709 --> 01:21:05,199

and you want to change your direction

1960

01:21:08,870 --> 01:21:06,719

maybe we don't know the unknown physics

1961

01:21:10,229 --> 01:21:08,880

either you got to push against something

1962

01:21:11,830 --> 01:21:10,239

you could be pushing into the plant

1963

01:21:14,229 --> 01:21:11,840

that's what the gravity drive is kind of

1964

01:21:15,590 --> 01:21:14,239

nice guys an idea as but if you're not

1965

01:21:18,070 --> 01:21:15,600

that's a lot of energy you're spending

1966

01:21:19,830 --> 01:21:18,080

you have to get it from somewhere and

1967

01:21:22,870 --> 01:21:19,840

the way we looked at thing turning like

1968

01:21:25,590 --> 01:21:22,880

if it was doing a 5000 g-turn and it has

1969

01:21:27,430 --> 01:21:25,600

the mass of you know an airplane then it

1970

01:21:30,229 --> 01:21:27,440

was using the kind of energies that the

1971

01:21:32,390 --> 01:21:30,239

entire planetary economy uses in a given

1972

01:21:34,390 --> 01:21:32,400

moment thousands of nuclear reactors

1973

01:21:35,669 --> 01:21:34,400

worth and whether it's using a gravity

1974

01:21:38,310 --> 01:21:35,679

try to do that or not still should have

1975

01:21:40,229 --> 01:21:38,320

to pay that energy bill now of course if

1976

01:21:44,149 --> 01:21:40,239

it's near a star spaceship they probably

1977

01:21:47,030 --> 01:21:44,950

and

1978

01:21:48,709 --> 01:21:47,040

that's very interesting

1979

01:21:50,709 --> 01:21:48,719

let's stay right there for a second when

1980

01:21:51,990 --> 01:21:50,719

we talk about

1981

01:21:54,629 --> 01:21:52,000

uh

1982

01:21:58,550 --> 01:21:54,639

80 000 feet you know sub-orbital that's

1983

01:21:59,910 --> 01:21:58,560

high right uh down to 28 000 feet and

1984

01:22:02,790 --> 01:21:59,920

stopping

1985

01:22:05,270 --> 01:22:02,800

it's it's it sounds impressive right

1986

01:22:07,270 --> 01:22:05,280

okay we could see that in a movie

1987

01:22:11,189 --> 01:22:07,280

but in the real world

1988

01:22:15,270 --> 01:22:11,199

to stop from that kind of speed takes a

1989

01:22:17,590 --> 01:22:15,280

lot of energy and we would see that

1990

01:22:19,110 --> 01:22:17,600

that expulsion of energy right that

1991

01:22:20,709 --> 01:22:19,120

wouldn't there be an effect on

1992

01:22:23,189 --> 01:22:20,719

everything around it

1993

01:22:24,390 --> 01:22:23,199

uh to just stop at that point

1994

01:22:25,510 --> 01:22:24,400

well there's many ways something could

1995

01:22:27,110 --> 01:22:25,520

stop like you don't have to have an

1996

01:22:28,870 --> 01:22:27,120

on-board power supply to stop in the

1997

01:22:29,669 --> 01:22:28,880

atmosphere you could do is aerobrake

1998

01:22:31,350 --> 01:22:29,679

right

1999

01:22:33,669 --> 01:22:31,360

so how would you air brake that quick

2000

01:22:36,149 --> 01:22:33,679

well you need a parachute that was huge

2001
01:22:37,110 --> 01:22:36,159
compared to your ship in terms of mass

2002
01:22:38,390 --> 01:22:37,120
but you might actually be able to do

2003
01:22:39,830 --> 01:22:38,400
something that with like graphing we

2004
01:22:41,669 --> 01:22:39,840
asked about graphing and awesome stuff

2005
01:22:44,070 --> 01:22:41,679
for space elevators that we can produce

2006
01:22:46,629 --> 01:22:44,080
now just not saying ideal quantities

2007
01:22:48,229 --> 01:22:46,639
that makes for an amazingly good

2008
01:22:49,990 --> 01:22:48,239
parachute if you got that mastered

2009
01:22:50,870 --> 01:22:50,000
because it's so cute atoms thick you

2010
01:22:55,350 --> 01:22:50,880
could do

2011
01:22:57,110 --> 01:22:55,360
kilometer wide parachute with ease

2012
01:22:58,470 --> 01:22:57,120
and that's got the tents outside the

2013
01:23:00,550 --> 01:22:58,480

pool so you would stop that fast enough

2014

01:23:02,149 --> 01:23:00,560

vecchi itself so that would be an

2015

01:23:03,990 --> 01:23:02,159

example where you could aerobrake but

2016

01:23:05,430 --> 01:23:04,000

you'd see that you would see all that

2017

01:23:07,030 --> 01:23:05,440

right yeah all that it's not just that

2018

01:23:09,350 --> 01:23:07,040

you see the shoot too

2019

01:23:11,350 --> 01:23:09,360

all that energy the ship had just had to

2020

01:23:12,470 --> 01:23:11,360

get scattered into the air right on top

2021

01:23:14,229 --> 01:23:12,480

of my head i don't know how much kinetic

2022

01:23:16,310 --> 01:23:14,239

energy that ship would have no would be

2023

01:23:17,750 --> 01:23:16,320

without its mass but over an entire

2024

01:23:19,510 --> 01:23:17,760

kilometer i still think you see an

2025

01:23:21,189 --> 01:23:19,520

infrared blur if not a visible one for

2026

01:23:23,510 --> 01:23:21,199

something like that you would see a blow

2027

01:23:26,149 --> 01:23:23,520

out of the water too as well you would

2028

01:23:27,030 --> 01:23:26,159

it would have to go somewhere

2029

01:23:28,629 --> 01:23:27,040

yeah

2030

01:23:30,629 --> 01:23:28,639

you would you'd have something a ripple

2031

01:23:31,590 --> 01:23:30,639

effect now i can't tell you that'll be

2032

01:23:33,270 --> 01:23:31,600

something they would definitely have

2033

01:23:34,870 --> 01:23:33,280

known or seen it could easily as if

2034

01:23:36,629 --> 01:23:34,880

you're flying in a jet with all the air

2035

01:23:38,629 --> 01:23:36,639

ripples going on you could easily maybe

2036

01:23:40,149 --> 01:23:38,639

miss something like that but again i'm

2037

01:23:41,270 --> 01:23:40,159

spinning stuff up out of nowhere someone

2038

01:23:43,350 --> 01:23:41,280

might be comfortable the reason why that

2039

01:23:45,510 --> 01:23:43,360

would not work but that would be example

2040

01:23:46,629 --> 01:23:45,520

of how without carrying fuel something

2041

01:23:49,750 --> 01:23:46,639

under known sites that we could

2042

01:23:50,870 --> 01:23:49,760

potentially build could stop like that

2043

01:23:52,470 --> 01:23:50,880

now i don't know how it would suddenly

2044

01:23:53,669 --> 01:23:52,480

start spinning around the air without

2045

01:23:55,270 --> 01:23:53,679

its own fuel right after that but that

2046

01:23:56,229 --> 01:23:55,280

would be an example of when we could

2047

01:23:58,790 --> 01:23:56,239

stop

2048

01:24:02,870 --> 01:23:58,800

and i don't know why you would be doing

2049

01:24:05,669 --> 01:24:04,229

over somebody else's territory but there

2050

01:24:09,990 --> 01:24:05,679

might be a spatula too if it's a secret

2051
01:24:12,470 --> 01:24:10,000
prototype weapon sure sure now the uh

2052
01:24:14,950 --> 01:24:12,480
uh the other part of this and this is

2053
01:24:17,910 --> 01:24:14,960
something that you have uh done

2054
01:24:19,830 --> 01:24:17,920
very very deep research into

2055
01:24:20,629 --> 01:24:19,840
is

2056
01:24:22,950 --> 01:24:20,639
you

2057
01:24:25,510 --> 01:24:22,960
in in order for this to occur without

2058
01:24:28,310 --> 01:24:25,520
anything happening around it

2059
01:24:30,390 --> 01:24:28,320
you would have to have your own

2060
01:24:33,510 --> 01:24:30,400
gravity uh

2061
01:24:35,990 --> 01:24:33,520
well around you inside of the ship and

2062
01:24:37,990 --> 01:24:36,000
around the ship where our gravity here

2063
01:24:41,510 --> 01:24:38,000

on earth has nothing to do

2064

01:24:44,229 --> 01:24:41,520

with what is happening with the tic-tac

2065

01:24:45,990 --> 01:24:44,239

where g-forces don't matter the ship is

2066

01:24:50,149 --> 01:24:46,000

being held together and not falling

2067

01:24:51,430 --> 01:24:50,159

apart because it's in its own uh it's in

2068

01:24:54,070 --> 01:24:51,440

its own bubble

2069

01:24:56,629 --> 01:24:54,080

of of gravity is this

2070

01:25:00,149 --> 01:24:56,639

is is this the reason why we didn't see

2071

01:25:02,149 --> 01:25:00,159

any effects in our atmosphere

2072

01:25:03,750 --> 01:25:02,159

uh none i mean we don't again know how

2073

01:25:05,750 --> 01:25:03,760

an inertial compensator like to have in

2074

01:25:07,270 --> 01:25:05,760

star trek would work for instance so we

2075

01:25:09,189 --> 01:25:07,280

can't say that it would have no effect

2076

01:25:10,709 --> 01:25:09,199

around it but you'd always expect the

2077

01:25:12,390 --> 01:25:10,719

energy had to go somewhere i mean

2078

01:25:13,830 --> 01:25:12,400

inertial compensators are a little bit

2079

01:25:15,750 --> 01:25:13,840

like the casual artificial gravity

2080

01:25:17,270 --> 01:25:15,760

island spaceships it's kind of an

2081

01:25:19,430 --> 01:25:17,280

acknowledgment of hollywood's

2082

01:25:20,709 --> 01:25:19,440

limitations of special effects sure uh

2083

01:25:22,709 --> 01:25:20,719

there's not really a lot of science for

2084

01:25:24,950 --> 01:25:22,719

how that would work but

2085

01:25:26,870 --> 01:25:24,960

we don't believe that gravity and

2086

01:25:28,709 --> 01:25:26,880

inertia are really actually related like

2087

01:25:30,229 --> 01:25:28,719

we think they are your gravity we think

2088

01:25:31,669 --> 01:25:30,239

might be completely separate from it

2089

01:25:33,910 --> 01:25:31,679

also even though they both go off of

2090

01:25:36,310 --> 01:25:33,920

mass you got your inertial mass and your

2091

01:25:38,709 --> 01:25:36,320

quavitic active and passive gravity uh

2092

01:25:40,310 --> 01:25:38,719

mass and they might be unrelated and it

2093

01:25:41,990 --> 01:25:40,320

might be you can shut one off that's

2094

01:25:43,510 --> 01:25:42,000

kind of what the interest of the higgs

2095

01:25:45,669 --> 01:25:43,520

boson really is the end of the day is

2096

01:25:47,270 --> 01:25:45,679

that's how we think inertia might work

2097

01:25:48,870 --> 01:25:47,280

if you shut that off and again that's

2098

01:25:51,189 --> 01:25:48,880

one of those technologies like perpetual

2099

01:25:52,470 --> 01:25:51,199

motion machines that every alien empire

2100

01:25:53,830 --> 01:25:52,480

should be working phonetically on

2101
01:25:55,350 --> 01:25:53,840
figuring out how to do if it can be done

2102
01:25:56,790 --> 01:25:55,360
they'll figure it out

2103
01:25:58,870 --> 01:25:56,800
then you could potentially get stuff

2104
01:26:01,910 --> 01:25:58,880
like that i would though say on the more

2105
01:26:03,430 --> 01:26:01,920
mundane side um we have fuses that found

2106
01:26:05,189 --> 01:26:03,440
out artillery shells for instance or

2107
01:26:07,510 --> 01:26:05,199
bullets that undergo a thousand g's

2108
01:26:09,590 --> 01:26:07,520
acceleration are still functional

2109
01:26:11,590 --> 01:26:09,600
most technology most sensitive

2110
01:26:13,350 --> 01:26:11,600
technology couldn't survive united gs

2111
01:26:15,030 --> 01:26:13,360
normally but you can build that would

2112
01:26:17,510 --> 01:26:15,040
that do a little bit more and of course

2113
01:26:20,070 --> 01:26:17,520

humans can't survive that either but we

2114

01:26:21,990 --> 01:26:20,080

don't need humans to fly ships anymore

2115

01:26:22,870 --> 01:26:22,000

so we just have to have an assumption

2116

01:26:23,830 --> 01:26:22,880

that somebody was able to build

2117

01:26:26,070 --> 01:26:23,840

something to handle that amount of

2118

01:26:27,990 --> 01:26:26,080

inertia and we probably could build

2119

01:26:29,830 --> 01:26:28,000

something that could continue to run a

2120

01:26:31,030 --> 01:26:29,840

drone and like a thousand jesus

2121

01:26:32,550 --> 01:26:31,040

acceleration

2122

01:26:34,550 --> 01:26:32,560

i think that's inside our attack right

2123

01:26:36,550 --> 01:26:34,560

now grain of salt i bet it would be

2124

01:26:37,830 --> 01:26:36,560

inside aliens for instance too we don't

2125

01:26:39,350 --> 01:26:37,840

have to assume they just have a way to

2126
01:26:42,149 --> 01:26:39,360
keep somebody alive inside there through

2127
01:26:44,390 --> 01:26:42,159
inertia it might be only a

2128
01:26:47,030 --> 01:26:44,400
post-biological item in there

2129
01:26:48,709 --> 01:26:47,040
now um and when we come back off of the

2130
01:26:50,550 --> 01:26:48,719
break i want to uh

2131
01:26:53,910 --> 01:26:50,560
talk about this further

2132
01:26:56,870 --> 01:26:53,920
um is the question of

2133
01:26:59,030 --> 01:26:56,880
uh if this is our tech

2134
01:27:01,910 --> 01:26:59,040
then it may be

2135
01:27:03,110 --> 01:27:01,920
uh backwards engineered from a captured

2136
01:27:06,149 --> 01:27:03,120
crashed

2137
01:27:10,390 --> 01:27:06,159
uh alien uh flying saucer for the lack

2138
01:27:13,189 --> 01:27:10,400

of a better word and we have uh uh

2139

01:27:14,470 --> 01:27:13,199

backwards engineered that technology

2140

01:27:16,629 --> 01:27:14,480

into

2141

01:27:18,390 --> 01:27:16,639

this tic tac

2142

01:27:20,149 --> 01:27:18,400

is this pushing things a little bit too

2143

01:27:21,430 --> 01:27:20,159

far

2144

01:27:22,790 --> 01:27:21,440

um

2145

01:27:25,270 --> 01:27:22,800

it's technology we don't have a good

2146

01:27:27,990 --> 01:27:25,280

basis in science for so if it's doing

2147

01:27:29,830 --> 01:27:28,000

what that's expected to do it probably

2148

01:27:31,990 --> 01:27:29,840

wasn't from all labs that we got the

2149

01:27:33,590 --> 01:27:32,000

idea

2150

01:27:35,830 --> 01:27:33,600

and so

2151
01:27:38,470 --> 01:27:35,840
it is possible

2152
01:27:40,629 --> 01:27:38,480
let's uh let's take this uh you know

2153
01:27:42,390 --> 01:27:40,639
theoretically speaking

2154
01:27:44,870 --> 01:27:42,400
um

2155
01:27:47,750 --> 01:27:44,880
if if it is possible

2156
01:27:49,270 --> 01:27:47,760
and our government is saying it's not

2157
01:27:52,310 --> 01:27:49,280
ours

2158
01:27:53,910 --> 01:27:52,320
could russia or china have leapfrogged

2159
01:27:56,310 --> 01:27:53,920
way past us

2160
01:27:58,550 --> 01:27:56,320
in this tech race uh

2161
01:28:00,950 --> 01:27:58,560
with with technology that

2162
01:28:03,110 --> 01:28:00,960
uh they've they've studied and

2163
01:28:06,070 --> 01:28:03,120

engineered and are now demonstrating

2164

01:28:07,830 --> 01:28:06,080

these capabilities on us

2165

01:28:09,510 --> 01:28:07,840

it's always possible but if it was the

2166

01:28:11,110 --> 01:28:09,520

russians i'd expect them to have

2167

01:28:12,629 --> 01:28:11,120

displayed that technology a little bit

2168

01:28:14,950 --> 01:28:12,639

more openly

2169

01:28:15,910 --> 01:28:14,960

and uh i'll be honest i don't think they

2170

01:28:17,669 --> 01:28:15,920

could have pulled off there but are

2171

01:28:20,070 --> 01:28:17,679

keeping secrets that we are at least but

2172

01:28:22,790 --> 01:28:20,080

uh i think they'd have have used it for

2173

01:28:25,510 --> 01:28:22,800

other purposes by now and same with the

2174

01:28:27,110 --> 01:28:25,520

same would go for the chinese yeah yeah

2175

01:28:29,430 --> 01:28:27,120

and there's so many other applications

2176

01:28:30,950 --> 01:28:29,440

to say it's not anything could be

2177

01:28:32,149 --> 01:28:30,960

weaponized and if you got something

2178

01:28:33,990 --> 01:28:32,159

produced enough a lot of energy like

2179

01:28:35,669 --> 01:28:34,000

this to let you turn it as a ship it's

2180

01:28:37,430 --> 01:28:35,679

most weaponized by aspect isn't the cool

2181

01:28:39,750 --> 01:28:37,440

missile it makes it's the million

2182

01:28:41,430 --> 01:28:39,760

hyper-powered super super profitable

2183

01:28:42,550 --> 01:28:41,440

factories you can run on it instead as

2184

01:28:43,350 --> 01:28:42,560

an engine

2185

01:28:44,950 --> 01:28:43,360

you know

2186

01:28:47,830 --> 01:28:44,960

the power plant and this thing is just

2187

01:28:49,510 --> 01:28:47,840

too handy not to deploy in your civilian

2188

01:28:51,189 --> 01:28:49,520

infrastructure economy because then you

2189

01:28:52,709 --> 01:28:51,199

can dominate by simply producing way

2190

01:28:54,470 --> 01:28:52,719

more guns and tanks of a conventional

2191

01:28:56,550 --> 01:28:54,480

nature than everybody else yeah you've

2192

01:28:58,790 --> 01:28:56,560

talked about this before on your your

2193

01:29:01,110 --> 01:28:58,800

web series i find that very compelling

2194

01:29:02,709 --> 01:29:01,120

let's take our break right here this is

2195

01:29:05,030 --> 01:29:02,719

fade to black i am your host jimmy

2196

01:29:06,470 --> 01:29:05,040

church our guest tonight isaac arthur we

2197

01:29:07,830 --> 01:29:06,480

are talking about

2198

01:29:09,990 --> 01:29:07,840

the physics

2199

01:29:11,910 --> 01:29:10,000

of a tic tac more with isaac after this

2200

01:29:22,280 --> 01:29:11,920

short break this is fade to black stay

2201

01:29:22,290 --> 01:29:32,790

[Music]

2202

01:29:39,030 --> 01:29:35,990

way out here we listen to jimmy church

2203

01:29:40,870 --> 01:29:39,040

you're listening to fade to black

2204

01:29:43,590 --> 01:29:40,880

always on the edge of the hottest

2205

01:29:46,820 --> 01:29:43,600

alternative talk jimmy church with fade

2206

01:29:46,830 --> 01:29:59,030

[Applause]

2207

01:30:02,470 --> 01:30:00,709

when you think about the future of our

2208

01:30:05,590 --> 01:30:02,480

country and where we're headed do you

2209

01:30:07,430 --> 01:30:05,600

wonder about the food supply i do

2210

01:30:09,750 --> 01:30:07,440

disruptions in the food supply chain

2211

01:30:12,470 --> 01:30:09,760

could be disastrous and they usually

2212

01:30:14,550 --> 01:30:12,480

occur with little warning that's why the

2213

01:30:17,910 --> 01:30:14,560

smartest thing you can do today is to

2214

01:30:20,790 --> 01:30:17,920

stockpile emergency food water and other

2215

01:30:22,950 --> 01:30:20,800

essentials i personally recommend my

2216

01:30:25,510 --> 01:30:22,960

patriot supply they're the nation's

2217

01:30:27,750 --> 01:30:25,520

largest emergency preparedness company

2218

01:30:30,550 --> 01:30:27,760

serving millions of customers for more

2219

01:30:32,470 --> 01:30:30,560

than a decade in fact they're the only

2220

01:30:35,350 --> 01:30:32,480

source my family trusts for our

2221

01:30:37,910 --> 01:30:35,360

preparedness plan you should too

2222

01:30:40,149 --> 01:30:37,920

right now save twenty percent off a full

2223

01:30:42,870 --> 01:30:40,159

four week supply of delicious meals that

2224

01:30:44,950 --> 01:30:42,880

provide two thousand calories a day

2225

01:30:48,270 --> 01:30:44,960

saving twenty percent helps too doesn't

2226

01:30:50,550 --> 01:30:48,280

it especially now so go to

2227

01:30:53,830 --> 01:30:50,560

preparewithjimmy.com and get ready

2228

01:30:57,669 --> 01:30:53,840

that's prepare with jimmy.com there's no

2229

01:31:00,709 --> 01:30:57,679

time to lose do it now

2230

01:31:02,950 --> 01:31:00,719

so you love talk radio then you'll love

2231

01:31:06,070 --> 01:31:02,960

talk talkstreamlive.com

2232

01:31:08,310 --> 01:31:06,080

talk stream live is always on 24 7 with

2233

01:31:10,229 --> 01:31:08,320

the best streaming talk shows find your

2234

01:31:13,110 --> 01:31:10,239

favorite talkers and discover some new

2235

01:31:15,189 --> 01:31:13,120

ones it's free readily available online

2236

01:31:17,270 --> 01:31:15,199

or on mobile with any smartphone or

2237

01:31:19,830 --> 01:31:17,280

tablet finding your favorite talk shows

2238

01:31:21,629 --> 01:31:19,840

all in one place has gotten a whole lot

2239

01:31:28,950 --> 01:31:21,639

easier just go to

2240

01:31:34,100 --> 01:31:32,149

you listen downl us and we listen to you

2241

01:31:38,310 --> 01:31:34,110

and so does the cia

2242

01:31:45,189 --> 01:31:40,390

you are listening to fate to black with

2243

01:31:47,669 --> 01:31:45,199

jimmy church on the game changer network

2244

01:31:50,629 --> 01:31:47,679

hi i'm reece vance you're listening to

2245

01:31:53,430 --> 01:31:50,639

jimmy church this is revolution the

2246

01:31:56,709 --> 01:31:53,440

revolution will not be televised the

2247

01:32:01,400 --> 01:31:56,719

revolution is on radio

2248

01:32:39,830 --> 01:32:30,670

[Music]

2249

01:32:43,430 --> 01:32:41,669

welcome back fade to black i am your

2250

01:32:45,669 --> 01:32:43,440

host jimmy church i guess tonight isaac

2251

01:32:47,510 --> 01:32:45,679

arthur tomorrow night is fader night

2252

01:32:49,750 --> 01:32:47,520

open lines all night long tonight we're

2253

01:32:51,590 --> 01:32:49,760

talking about the physics

2254

01:32:53,350 --> 01:32:51,600

of a tic tac

2255

01:32:57,270 --> 01:32:53,360

and uh

2256

01:32:58,629 --> 01:32:57,280

now uh continuing this conversation

2257

01:32:59,669 --> 01:32:58,639

um

2258

01:33:04,550 --> 01:32:59,679

uh

2259

01:33:05,750 --> 01:33:04,560

directly because i did ask for

2260

01:33:09,270 --> 01:33:05,760

permission

2261

01:33:10,310 --> 01:33:09,280

um uh jack sarfati a physicist out there

2262

01:33:14,550 --> 01:33:10,320

has been

2263

01:33:15,510 --> 01:33:14,560

uh presenting uh a lot of uh math

2264

01:33:21,189 --> 01:33:15,520

uh

2265

01:33:23,590 --> 01:33:21,199

how this technology is being used today

2266

01:33:27,110 --> 01:33:23,600

and i asked jack for his permission if i

2267

01:33:29,669 --> 01:33:27,120

could send uh his his stuff out

2268

01:33:32,070 --> 01:33:29,679

to various physicists that i know out

2269

01:33:34,629 --> 01:33:32,080

there at uh caltech mit

2270

01:33:37,990 --> 01:33:34,639

and uh and harvard uh which i did do and

2271

01:33:40,790 --> 01:33:38,000

i also sent this uh uh some of the some

2272

01:33:43,350 --> 01:33:40,800

of this a lot of it's a lot of it's a

2273

01:33:45,669 --> 01:33:43,360

lot of stuff uh i sent some of it to

2274

01:33:47,430 --> 01:33:45,679

isaac as well uh jack replied back he

2275

01:33:48,390 --> 01:33:47,440

said go ahead jimmy go ahead i said all

2276

01:33:52,310 --> 01:33:48,400

right

2277

01:33:56,070 --> 01:33:52,320

last week and

2278

01:33:58,070 --> 01:33:56,080

um i sent uh some stuff to you isaac and

2279

01:34:01,350 --> 01:33:58,080

when you look at

2280

01:34:03,830 --> 01:34:01,360

uh these equations i'm not gonna go to

2281

01:34:05,910 --> 01:34:03,840

your responses uh to me i'm just going

2282

01:34:08,550 --> 01:34:05,920

to ask you directly

2283

01:34:09,750 --> 01:34:08,560

when you look at

2284

01:34:11,669 --> 01:34:09,760

the math

2285

01:34:13,990 --> 01:34:11,679

from sarfati

2286

01:34:16,709 --> 01:34:14,000

does it make sense

2287

01:34:18,709 --> 01:34:16,719

the math i saw made sense but it was

2288

01:34:20,550 --> 01:34:18,719

mostly just a repeat of of the usual

2289

01:34:22,310 --> 01:34:20,560

competitive experiment for

2290

01:34:24,790 --> 01:34:22,320

figuring out gravity

2291

01:34:26,950 --> 01:34:24,800

uh expand on that that's that's too

2292

01:34:29,430 --> 01:34:26,960

simplistic

2293

01:34:31,189 --> 01:34:29,440

um well a long time ago kvendish was a

2294

01:34:33,990 --> 01:34:31,199

scientist trying to measure the constant

2295

01:34:35,270 --> 01:34:34,000

of gravity uh which we have now down to

2296

01:34:37,189 --> 01:34:35,280

i don't remember how many digits it was

2297

01:34:39,270 --> 01:34:37,199

eight when i was in college and it's

2298

01:34:40,390 --> 01:34:39,280

very tricky to do they used to uh do

2299

01:34:42,229 --> 01:34:40,400

this in journey but they actually have

2300

01:34:43,990 --> 01:34:42,239

to chase birds out for a shotgun because

2301

01:34:45,910 --> 01:34:44,000

they're just flying over the lab would

2302

01:34:47,910 --> 01:34:45,920

mess up the experiment for the day but

2303

01:34:50,550 --> 01:34:47,920

you basically tend to hang two big steel

2304

01:34:51,910 --> 01:34:50,560

balls near each other and then move them

2305

01:34:54,229 --> 01:34:51,920

closer or further from each other and

2306

01:34:55,750 --> 01:34:54,239

see how much they change compared to

2307

01:34:57,590 --> 01:34:55,760

what you'd expect if they want to hang

2308

01:34:59,830 --> 01:34:57,600

the gravity factor in that's one of the

2309

01:35:01,270 --> 01:34:59,840

many ways that it's done and mostly

2310

01:35:03,109 --> 01:35:01,280

something you showed me at the time from

2311

01:35:04,550 --> 01:35:03,119

him was basically just the repeat of the

2312

01:35:05,990 --> 01:35:04,560

equations that

2313

01:35:07,030 --> 01:35:06,000

you could find almost anywhere from that

2314

01:35:09,430 --> 01:35:07,040

i didn't see anything in there one way

2315

01:35:13,109 --> 01:35:09,440

or another that was controversial uh but

2316

01:35:17,030 --> 01:35:13,119

uh does uh does the math

2317

01:35:19,350 --> 01:35:17,040

show an anti-gravity propulsion system

2318

01:35:21,270 --> 01:35:19,360

nothing that i was shown no nothing that

2319

01:35:23,510 --> 01:35:21,280

uh that you sent me that from his walk

2320

01:35:25,990 --> 01:35:23,520

indicated anything with anti-gravity

2321

01:35:27,510 --> 01:35:26,000

and um and it mostly just looked like

2322

01:35:29,109 --> 01:35:27,520

the way you would check if something was

2323

01:35:30,629 --> 01:35:29,119

if you had it on hand

2324

01:35:31,510 --> 01:35:30,639

if i was reading it right

2325

01:35:32,310 --> 01:35:31,520

and

2326

01:35:36,870 --> 01:35:32,320

how

2327

01:35:39,990 --> 01:35:36,880

lot of research into this

2328

01:35:43,109 --> 01:35:40,000

um how far along are we with with

2329

01:35:45,350 --> 01:35:43,119

anti-gravity and and specifically the

2330

01:35:47,510 --> 01:35:45,360

math because all of this is on

2331

01:35:49,430 --> 01:35:47,520

on paper and white boards and inside of

2332

01:35:51,350 --> 01:35:49,440

computers i was going to say if you

2333

01:35:52,709 --> 01:35:51,360

wonder how far along we are anti-gravity

2334

01:35:53,990 --> 01:35:52,719

development

2335

01:35:55,590 --> 01:35:54,000

nowhere uh

2336

01:35:57,510 --> 01:35:55,600

in paper though we've got it pretty well

2337

01:35:59,430 --> 01:35:57,520

mapped out uh depends on the

2338

01:36:00,390 --> 01:35:59,440

cosmological model it looks different

2339

01:36:02,229 --> 01:36:00,400

under

2340

01:36:03,189 --> 01:36:02,239

string theory for instance than it does

2341

01:36:05,109 --> 01:36:03,199

under

2342

01:36:07,189 --> 01:36:05,119

standard model and i know general

2343

01:36:10,070 --> 01:36:07,199

relativity from quantum mechanics and so

2344

01:36:12,550 --> 01:36:10,080

on our knowledge of gravity has expanded

2345

01:36:14,550 --> 01:36:12,560

vastly since uh since einstein's day on

2346

01:36:16,310 --> 01:36:14,560

newton's day and it's still

2347

01:36:18,390 --> 01:36:16,320

really tiny so

2348

01:36:20,550 --> 01:36:18,400

we don't have anything approaching good

2349

01:36:21,990 --> 01:36:20,560

we have some good theoretical bases

2350

01:36:23,510 --> 01:36:22,000

being those are pretty limited and but

2351

01:36:25,910 --> 01:36:23,520

our experimental modeling and our

2352

01:36:28,149 --> 01:36:25,920

technology for even more so is just very

2353

01:36:30,470 --> 01:36:28,159

limited with gravity there is no force

2354

01:36:31,990 --> 01:36:30,480

that we have known about as long as it

2355

01:36:34,870 --> 01:36:32,000

and there's no force we understand as

2356

01:36:36,470 --> 01:36:34,880

badly as it yeah i i remember asking you

2357

01:36:39,189 --> 01:36:36,480

directly

2358

01:36:40,870 --> 01:36:39,199

a few years ago

2359

01:36:44,790 --> 01:36:40,880

that

2360

01:36:47,510 --> 01:36:44,800

does anybody have a a a definition of

2361

01:36:49,430 --> 01:36:47,520

gravity that works i mean does anybody

2362

01:36:50,870 --> 01:36:49,440

understand gravity and clearly the

2363

01:36:51,590 --> 01:36:50,880

answer is no

2364

01:36:54,070 --> 01:36:51,600

right

2365

01:36:55,669 --> 01:36:54,080

i mean i'd modify that we understand its

2366

01:36:57,109 --> 01:36:55,679

effect pretty well you know we don't

2367

01:36:59,030 --> 01:36:57,119

have the dog bulks

2368

01:37:01,030 --> 01:36:59,040

uh we don't know how it works very well

2369

01:37:01,910 --> 01:37:01,040

though well it's improving we got those

2370

01:37:03,590 --> 01:37:01,920

um

2371

01:37:05,350 --> 01:37:03,600

we finally showed at least the gravity

2372

01:37:07,750 --> 01:37:05,360

waves existed the ligo experiments a few

2373

01:37:09,430 --> 01:37:07,760

years back and the most energetic events

2374

01:37:12,310 --> 01:37:09,440

in the universe uh you know when they

2375

01:37:13,990 --> 01:37:12,320

had two black horse clyde but that's not

2376

01:37:14,950 --> 01:37:14,000

a very common experiment to be able to

2377

01:37:17,750 --> 01:37:14,960

actually perform we should really

2378

01:37:20,629 --> 01:37:17,760

waiting on those to happen but um

2379

01:37:23,350 --> 01:37:20,639

our knowledge improves but it's it's

2380

01:37:25,990 --> 01:37:23,360

sadly lacking and when we talk about

2381

01:37:28,229 --> 01:37:26,000

anti-gravity and you know specifically

2382

01:37:29,750 --> 01:37:28,239

about an object uh you know like the

2383

01:37:32,070 --> 01:37:29,760

tic-tac

2384

01:37:35,430 --> 01:37:32,080

what uh what are we exactly talking

2385

01:37:37,590 --> 01:37:35,440

about here i mean it's it's it's such a

2386

01:37:41,350 --> 01:37:37,600

a freely used term

2387

01:37:42,229 --> 01:37:41,360

when it's so misunderstood anti-gravity

2388

01:37:44,790 --> 01:37:42,239

but

2389

01:37:45,750 --> 01:37:44,800

you would effectively i want to hear

2390

01:37:48,229 --> 01:37:45,760

from you

2391

01:37:51,350 --> 01:37:48,239

but i guess what it means is you're

2392

01:37:53,270 --> 01:37:51,360

neutralizing the effects of gravity

2393

01:37:57,350 --> 01:37:53,280

with something

2394

01:38:00,390 --> 01:37:57,360

that prevents gravity from uh attracting

2395

01:38:03,669 --> 01:38:00,400

or repelling right because gravity

2396

01:38:04,709 --> 01:38:03,679

approach way back in h.g wells uh

2397

01:38:05,910 --> 01:38:04,719

i can't even know the name of the book

2398

01:38:07,590 --> 01:38:05,920

the one that we go to the moon in though

2399

01:38:09,030 --> 01:38:07,600

they met a thing called cafe ride for

2400

01:38:10,709 --> 01:38:09,040

the scientists had it which was

2401

01:38:12,629 --> 01:38:10,719

basically just repelled gravity so it

2402

01:38:14,790 --> 01:38:12,639

bounced off it like it was a light beam

2403

01:38:16,790 --> 01:38:14,800

that's one model that could potentially

2404

01:38:18,229 --> 01:38:16,800

be true for gravity that's the gravitons

2405

01:38:19,669 --> 01:38:18,239

are just like little photons you could

2406

01:38:21,910 --> 01:38:19,679

bounce them off it

2407

01:38:23,590 --> 01:38:21,920

that's usually thought to be wrong under

2408

01:38:26,950 --> 01:38:23,600

the einsteinian approach which is that

2409

01:38:28,550 --> 01:38:26,960

space time itself is warping and um so

2410

01:38:29,830 --> 01:38:28,560

if that was how it ended up working that

2411

01:38:31,270 --> 01:38:29,840

would be an example of how you could

2412

01:38:33,350 --> 01:38:31,280

have anti-gravity in the sense there

2413

01:38:36,149 --> 01:38:33,360

wasn't so much anti-gravity as

2414

01:38:38,470 --> 01:38:36,159

gravity reflecting um i don't think

2415

01:38:39,750 --> 01:38:38,480

that's how gravity works but it's still

2416

01:38:41,590 --> 01:38:39,760

in the zone of ones that could

2417

01:38:43,350 --> 01:38:41,600

potentially be true that would be one

2418

01:38:45,430 --> 01:38:43,360

example of a gravity neutralizing

2419

01:38:48,390 --> 01:38:45,440

anti-gravity advice other ones would be

2420

01:38:49,830 --> 01:38:48,400

ones that um oh which is

2421

01:38:51,830 --> 01:38:49,840

there there's so many various ways you

2422

01:38:53,750 --> 01:38:51,840

can do it based on how the actual

2423

01:38:55,910 --> 01:38:53,760

physics of it really turns out but

2424

01:38:58,310 --> 01:38:55,920

anti-gravity is inside the scope of what

2425

01:38:59,990 --> 01:38:58,320

might be possible might be possible

2426

01:39:02,470 --> 01:39:00,000

because again

2427

01:39:03,510 --> 01:39:02,480

we can generate every other force and we

2428

01:39:05,109 --> 01:39:03,520

should be able to find some way to

2429

01:39:06,950 --> 01:39:05,119

generate gravity obviously we can just

2430

01:39:08,790 --> 01:39:06,960

by using large masses

2431

01:39:10,070 --> 01:39:08,800

but it's

2432

01:39:11,669 --> 01:39:10,080

not necessarily what you'd expect for

2433

01:39:13,590 --> 01:39:11,679

use for a ship to get slowed down really

2434

01:39:15,270 --> 01:39:13,600

quick like that that might be how you

2435

01:39:17,590 --> 01:39:15,280

pushed on things but where you'd be

2436

01:39:19,109 --> 01:39:17,600

looking more there would be um not the

2437

01:39:21,669 --> 01:39:19,119

gravity component of it but rather that

2438

01:39:23,830 --> 01:39:21,679

inertia components and again mass works

2439

01:39:25,189 --> 01:39:23,840

with inertia and works with gravity but

2440

01:39:27,270 --> 01:39:25,199

under the standard model they're not

2441

01:39:29,270 --> 01:39:27,280

actually the same thing they just

2442

01:39:30,629 --> 01:39:29,280

coincide not coincidentally probably but

2443

01:39:32,709 --> 01:39:30,639

they just happen to use that same

2444

01:39:33,669 --> 01:39:32,719

concept of mass if you had something

2445

01:39:36,470 --> 01:39:33,679

that could eliminate something's

2446

01:39:37,910 --> 01:39:36,480

inertial mass or temporarily drop it

2447

01:39:39,270 --> 01:39:37,920

that would let you do exactly what's

2448

01:39:41,030 --> 01:39:39,280

being done there but not necessarily

2449

01:39:42,870 --> 01:39:41,040

using energy

2450

01:39:45,109 --> 01:39:42,880

if your inertial mass was something you

2451
01:39:47,830 --> 01:39:45,119
could flip down to one percent of what

2452
01:39:50,229 --> 01:39:47,840
it normally was you'd still be going 100

2453
01:39:52,310 --> 01:39:50,239
times faster without having to add any

2454
01:39:53,430 --> 01:39:52,320
energy whatsoever conversely if you

2455
01:39:55,189 --> 01:39:53,440
could suddenly kick it up to be 100

2456
01:39:57,030 --> 01:39:55,199
times higher than it previously been you

2457
01:39:57,990 --> 01:39:57,040
say slow to one percent of your previous

2458
01:39:59,430 --> 01:39:58,000
speed

2459
01:40:00,950 --> 01:39:59,440
if you could master that kind of

2460
01:40:02,550 --> 01:40:00,960
technology that was actually possible

2461
01:40:04,229 --> 01:40:02,560
because that was how that worked out if

2462
01:40:05,590 --> 01:40:04,239
that was the real physics of the case

2463
01:40:07,270 --> 01:40:05,600

then you could do things like that with

2464

01:40:09,030 --> 01:40:07,280

a ship without needing a huge power

2465

01:40:10,149 --> 01:40:09,040

supply

2466

01:40:12,310 --> 01:40:10,159

now

2467

01:40:15,910 --> 01:40:12,320

okay so

2468

01:40:18,310 --> 01:40:15,920

it sounds like you are in agreement with

2469

01:40:21,750 --> 01:40:18,320

the uap task force

2470

01:40:23,350 --> 01:40:21,760

it's not it's not ours right wide and

2471

01:40:25,270 --> 01:40:23,360

they left a lot of latitude of the their

2472

01:40:26,870 --> 01:40:25,280

cops they did they did i don't think it

2473

01:40:29,109 --> 01:40:26,880

was one of ours i don't think it was one

2474

01:40:30,950 --> 01:40:29,119

of the uh any other i don't believe that

2475

01:40:33,430 --> 01:40:30,960

that whatever they saw belonged to any

2476

01:40:34,950 --> 01:40:33,440

country out there on this planet

2477

01:40:37,830 --> 01:40:34,960

you know like i'm not going to say it

2478

01:40:39,270 --> 01:40:37,840

absolutely didn't um and uh i don't

2479

01:40:40,950 --> 01:40:39,280

believe anybody involved in the report

2480

01:40:43,750 --> 01:40:40,960

was intentionally being incorrect with

2481

01:40:46,310 --> 01:40:43,760

their information either so

2482

01:40:48,390 --> 01:40:46,320

what is left isaac

2483

01:40:49,669 --> 01:40:48,400

what is left

2484

01:40:51,430 --> 01:40:49,679

what is it as we say with sherlock

2485

01:40:53,030 --> 01:40:51,440

holmes once you've ruled out the uh the

2486

01:40:55,350 --> 01:40:53,040

possibility possible whatever it is no

2487

01:40:57,189 --> 01:40:55,360

matter how improbable must be what it is

2488

01:40:58,709 --> 01:40:57,199

we have a lot it could still be we don't

2489

01:41:01,270 --> 01:40:58,719

want to jump the gun out too much it

2490

01:41:02,149 --> 01:41:01,280

could be a natural phenomena it could be

2491

01:41:03,510 --> 01:41:02,159

i mean

2492

01:41:05,109 --> 01:41:03,520

it's not going to be the one example of

2493

01:41:06,790 --> 01:41:05,119

percentage was like a meteor falling and

2494

01:41:08,470 --> 01:41:06,800

exploding at that height that's not

2495

01:41:09,590 --> 01:41:08,480

gonna work out to be the case but

2496

01:41:11,350 --> 01:41:09,600

there's a lot of things that could be

2497

01:41:13,189 --> 01:41:11,360

including instrument error again we are

2498

01:41:14,550 --> 01:41:13,199

assuming everyone was an honest witness

2499

01:41:16,550 --> 01:41:14,560

but that doesn't mean they were a

2500

01:41:18,229 --> 01:41:16,560

correct witness and there's a lot of

2501

01:41:19,350 --> 01:41:18,239

things that can full radar there's a lot

2502

01:41:21,189 --> 01:41:19,360

of things you can screw up while your

2503

01:41:22,790 --> 01:41:21,199

returns you could potentially get a

2504

01:41:24,870 --> 01:41:22,800

radar scene traffic something hot coming

2505

01:41:27,430 --> 01:41:24,880

in and what they see is the object

2506

01:41:28,790 --> 01:41:27,440

coming down and then a flash of steam

2507

01:41:30,629 --> 01:41:28,800

for all the air is super heated that

2508

01:41:32,310 --> 01:41:30,639

causes a radar return these kind of

2509

01:41:34,070 --> 01:41:32,320

things are still on the table we don't

2510

01:41:35,590 --> 01:41:34,080

have enough to be able to say what it

2511

01:41:38,709 --> 01:41:35,600

was and that means there's a lot we

2512

01:41:40,870 --> 01:41:38,719

can't rule out yet either but it wasn't

2513

01:41:42,870 --> 01:41:40,880

a terrestrially created ship

2514

01:41:44,950 --> 01:41:42,880

if it met any of those characteristics

2515

01:41:47,590 --> 01:41:44,960

at least if it was it's from somebody

2516

01:41:49,910 --> 01:41:47,600

who has an amazingly good resource team

2517

01:41:51,590 --> 01:41:49,920

and an amazingly bad one when it comes

2518

01:41:53,030 --> 01:41:51,600

to strategic usage since there's so much

2519

01:41:54,950 --> 01:41:53,040

they could do with that they got the

2520

01:41:56,870 --> 01:41:54,960

best Jesus in the world working for them

2521

01:41:58,390 --> 01:41:56,880

succeeding and the people employing it

2522

01:42:02,470 --> 01:41:58,400

don't know what they're doing

2523

01:42:04,310 --> 01:42:02,480

okay so now let's take uh let's take uh

2524

01:42:05,910 --> 01:42:04,320

nuts and bolts out of it let's take a

2525

01:42:07,750 --> 01:42:05,920

physical craft out of it let's take

2526
01:42:09,510 --> 01:42:07,760
anti-gravity out let's take all of that

2527
01:42:11,830 --> 01:42:09,520
out

2528
01:42:13,270 --> 01:42:11,840
but stay in the physics world

2529
01:42:15,910 --> 01:42:13,280
what about

2530
01:42:19,350 --> 01:42:15,920
a projection of light

2531
01:42:23,350 --> 01:42:19,360
what about a hologram what about a

2532
01:42:25,109 --> 01:42:23,360
plasma image being projected out that

2533
01:42:27,510 --> 01:42:25,119
certainly would cover a lot of different

2534
01:42:29,910 --> 01:42:27,520
things it would cover the speed factor

2535
01:42:31,430 --> 01:42:29,920
it would cover the stopping factor it

2536
01:42:32,229 --> 01:42:31,440
would uh

2537
01:42:35,430 --> 01:42:32,239
uh

2538
01:42:39,270 --> 01:42:35,440

no no energy being admitted

2539

01:42:43,750 --> 01:42:39,280

um could it be something as simple

2540

01:42:45,109 --> 01:42:43,760

as a projection yes yeah

2541

01:42:46,950 --> 01:42:45,119

uh especially something like magnetic

2542

01:42:48,070 --> 01:42:46,960

lines work really well radar is

2543

01:42:49,830 --> 01:42:48,080

obviously gonna go right through a

2544

01:42:51,350 --> 01:42:49,840

hologram but uh that's only if you're

2545

01:42:52,950 --> 01:42:51,360

using the classic light hologram

2546

01:42:54,470 --> 01:42:52,960

approach there's a lot of ways that you

2547

01:42:55,910 --> 01:42:54,480

could potentially be screened with

2548

01:42:58,470 --> 01:42:55,920

matter and local area the casa radar

2549

01:43:00,790 --> 01:42:58,480

return ionization real quick cause it

2550

01:43:02,870 --> 01:43:00,800

right um and you know radar overtones

2551
01:43:04,550 --> 01:43:02,880
are such weak things that we assume

2552
01:43:06,310 --> 01:43:04,560
that the radar return is bouncing off a

2553
01:43:07,750 --> 01:43:06,320
piece of metal

2554
01:43:09,030 --> 01:43:07,760
but there or something else because we

2555
01:43:11,669 --> 01:43:09,040
have a lot of known things that likely

2556
01:43:13,590 --> 01:43:11,679
happen that we encounter um what could

2557
01:43:15,910 --> 01:43:13,600
do that well i mentioned earlier that

2558
01:43:17,830 --> 01:43:15,920
graphene option of like a parachute made

2559
01:43:18,950 --> 01:43:17,840
of ultra-thin ultralight graphene what

2560
01:43:20,550 --> 01:43:18,960
if it was a parachute paint with a

2561
01:43:22,070 --> 01:43:20,560
plasma window instead

2562
01:43:23,750 --> 01:43:22,080
a plastic window you suddenly heat the

2563
01:43:25,109 --> 01:43:23,760

stuff up and it causes you know ionized

2564

01:43:27,109 --> 01:43:25,119

particles to deflect away from it

2565

01:43:28,870 --> 01:43:27,119

something we've looked at as a potential

2566

01:43:31,590 --> 01:43:28,880

pre-over airlocks like a force field in

2567

01:43:32,550 --> 01:43:31,600

space to just slow that air loss down

2568

01:43:33,990 --> 01:43:32,560

um

2569

01:43:35,750 --> 01:43:34,000

could something like that be done could

2570

01:43:36,709 --> 01:43:35,760

somebody been screwing out with

2571

01:43:38,870 --> 01:43:36,719

um

2572

01:43:41,430 --> 01:43:38,880

something along the lines of uh

2573

01:43:43,510 --> 01:43:41,440

you know a project or a plasma chapter

2574

01:43:45,189 --> 01:43:43,520

you know uh to as a potential way of

2575

01:43:47,350 --> 01:43:45,199

shooting down all planes or screen of

2576

01:43:48,790 --> 01:43:47,360

their instruments why would you ever

2577

01:43:51,750 --> 01:43:48,800

test your equipment whether you're an

2578

01:43:54,870 --> 01:43:51,760

alien or another country anywhere near

2579

01:43:56,870 --> 01:43:54,880

an aircraft carrier squadron

2580

01:44:00,070 --> 01:43:56,880

well presumably either you want them to

2581

01:44:01,990 --> 01:44:00,080

see it or you need them there because

2582

01:44:03,350 --> 01:44:02,000

they are component of your experiment

2583

01:44:05,270 --> 01:44:03,360

each you don't want to see if they can

2584

01:44:07,590 --> 01:44:05,280

pick you up for instance or if your

2585

01:44:10,310 --> 01:44:07,600

device for screwing with their returns

2586

01:44:12,629 --> 01:44:10,320

or their registers or their data worked

2587

01:44:14,070 --> 01:44:12,639

right and if you got a decent spy system

2588

01:44:16,229 --> 01:44:14,080

you could probably find out if something

2589

01:44:17,510 --> 01:44:16,239

as simple as was an aircraft carrier

2590

01:44:18,790 --> 01:44:17,520

suddenly convinced that they come across

2591

01:44:20,070 --> 01:44:18,800

something they didn't want to see or

2592

01:44:21,590 --> 01:44:20,080

just by looking at them and seeing how

2593

01:44:23,189 --> 01:44:21,600

they've gotten ramped up from the event

2594

01:44:25,030 --> 01:44:23,199

and sent out all the plays go check it

2595

01:44:27,430 --> 01:44:25,040

out could someone have done something

2596

01:44:29,750 --> 01:44:27,440

like that yes well we'll assume it's a

2597

01:44:31,510 --> 01:44:29,760

spaceship man to unmanned the physics

2598

01:44:32,790 --> 01:44:31,520

doesn't work out too well but again

2599

01:44:34,229 --> 01:44:32,800

that's only a limited number of the

2600

01:44:36,390 --> 01:44:34,239

options someone could have been doing

2601
01:44:38,470 --> 01:44:36,400
something along those lines it could be

2602
01:44:40,310 --> 01:44:38,480
also a non-singular craft they could

2603
01:44:42,070 --> 01:44:40,320
have been something like a cluster drone

2604
01:44:43,669 --> 01:44:42,080
where they had something that came down

2605
01:44:45,669 --> 01:44:43,679
really fast exploding a whole bunch of

2606
01:44:47,350 --> 01:44:45,679
little drones lots of options that could

2607
01:44:48,709 --> 01:44:47,360
potentially be the case we shouldn't

2608
01:44:49,910 --> 01:44:48,719
assume that if we can rule one of them

2609
01:44:50,950 --> 01:44:49,920
out it definitely means a different

2610
01:44:52,790 --> 01:44:50,960
answer

2611
01:44:54,310 --> 01:44:52,800
and uh there's a lot you can do that can

2612
01:44:57,109 --> 01:44:54,320
screw with radar returns infrared

2613
01:44:58,790 --> 01:44:57,119

returns and obviously visual returns too

2614

01:45:00,550 --> 01:44:58,800

but the visual components the smallest

2615

01:45:03,030 --> 01:45:00,560

one because it's really just very tiny

2616

01:45:05,990 --> 01:45:03,040

things people saw no wonder we got a

2617

01:45:08,870 --> 01:45:06,000

clear images of war now what about the

2618

01:45:11,910 --> 01:45:08,880

physics of of plasma

2619

01:45:15,030 --> 01:45:11,920

and and having a plasma image out there

2620

01:45:16,470 --> 01:45:15,040

uh we do know that darpa and and the air

2621

01:45:19,430 --> 01:45:16,480

force has been working with this

2622

01:45:20,310 --> 01:45:19,440

technology for a long time to project a

2623

01:45:22,629 --> 01:45:20,320

fake

2624

01:45:24,709 --> 01:45:22,639

aircraft out there that looks like an

2625

01:45:26,629 --> 01:45:24,719

aircraft that returns a radar signature

2626

01:45:29,430 --> 01:45:26,639

like an aircraft but it's not

2627

01:45:33,189 --> 01:45:29,440

and it's a plasma projection

2628

01:45:35,910 --> 01:45:33,199

um what what is plasma and and how is it

2629

01:45:38,470 --> 01:45:35,920

possible to morph it into a shape

2630

01:45:40,709 --> 01:45:38,480

and and project it out there

2631

01:45:42,790 --> 01:45:40,719

well plasma itself is just i mean at a

2632

01:45:44,550 --> 01:45:42,800

basic level it's material that's not a

2633

01:45:45,990 --> 01:45:44,560

not a gas anymore because it's so super

2634

01:45:47,590 --> 01:45:46,000

heated that's getting ionized so the

2635

01:45:49,189 --> 01:45:47,600

electrons are going to be offered the

2636

01:45:50,950 --> 01:45:49,199

sun's exterior surface is made out of

2637

01:45:52,229 --> 01:45:50,960

plasma for instance so is the interior

2638

01:45:54,629 --> 01:45:52,239

you get them inside of fluorescent light

2639

01:45:56,870 --> 01:45:54,639

bulbs too those that's full of plasma

2640

01:45:58,070 --> 01:45:56,880

um and uh completely unrelated to the

2641

01:46:00,229 --> 01:45:58,080

kind of things you have in blood plasma

2642

01:46:02,070 --> 01:46:00,239

it's just a similar ward but origin wise

2643

01:46:03,270 --> 01:46:02,080

um can we make the stuff absolutely do

2644

01:46:04,470 --> 01:46:03,280

it all the time because we used to run a

2645

01:46:06,310 --> 01:46:04,480

tv in a way you could think of like a

2646

01:46:07,990 --> 01:46:06,320

old um

2647

01:46:10,310 --> 01:46:08,000

uh well it's kind of exact opposite of a

2648

01:46:12,149 --> 01:46:10,320

plasma actually but uh the old electron

2649

01:46:14,149 --> 01:46:12,159

tubes inside vacuum tubes inside the old

2650

01:46:15,430 --> 01:46:14,159

tvs they throw a little ion out there

2651
01:46:17,270 --> 01:46:15,440
you know and that's that's being guided

2652
01:46:19,750 --> 01:46:17,280
magnetically that's an example of how

2653
01:46:21,750 --> 01:46:19,760
you control a plasma um the one problem

2654
01:46:22,950 --> 01:46:21,760
you have with using stuff in the air

2655
01:46:24,470 --> 01:46:22,960
because something we can absolutely make

2656
01:46:26,709 --> 01:46:24,480
it goes really fast right if you're

2657
01:46:29,189 --> 01:46:26,719
doing it right is that it tends to

2658
01:46:31,189 --> 01:46:29,199
interact with everything plasma weapons

2659
01:46:33,109 --> 01:46:31,199
as an example

2660
01:46:34,950 --> 01:46:33,119
oh not long range usually because they

2661
01:46:36,709 --> 01:46:34,960
they interact with everything they're

2662
01:46:37,990 --> 01:46:36,719
ionized particles they're electrically

2663
01:46:40,149 --> 01:46:38,000

charged they want to interact with

2664

01:46:41,830 --> 01:46:40,159

everything plasma hitting this

2665

01:46:44,070 --> 01:46:41,840

atmosphere above is what we see for the

2666

01:46:45,189 --> 01:46:44,080

aurora borealis for instance but there

2667

01:46:47,189 --> 01:46:45,199

are things you could do to generate a

2668

01:46:48,310 --> 01:46:47,199

plant but locally for instance um you

2669

01:46:49,990 --> 01:46:48,320

might be able to send a beam that

2670

01:46:51,910 --> 01:46:50,000

interacted a certain distance with a

2671

01:46:54,550 --> 01:46:51,920

pocket of a cloud of air like a water

2672

01:46:56,709 --> 01:46:54,560

air and uh you know and suddenly turned

2673

01:46:58,629 --> 01:46:56,719

all that into a plasma and that's what

2674

01:47:00,629 --> 01:46:58,639

caused that signature tone trying to

2675

01:47:01,830 --> 01:47:00,639

create a false image though don't think

2676

01:47:04,229 --> 01:47:01,840

it was like we're going to make an

2677

01:47:05,430 --> 01:47:04,239

actual projected image of a of a you

2678

01:47:06,790 --> 01:47:05,440

know aircraft carrier that you're

2679

01:47:08,709 --> 01:47:06,800

sitting there looking at five feet away

2680

01:47:10,390 --> 01:47:08,719

like wow that's realistic think of it

2681

01:47:11,669 --> 01:47:10,400

more as we could use to project

2682

01:47:14,390 --> 01:47:11,679

something that would cause a radar

2683

01:47:15,990 --> 01:47:14,400

return or an infrared return that would

2684

01:47:17,510 --> 01:47:16,000

blip like that i think most people miss

2685

01:47:18,550 --> 01:47:17,520

that almost all interactions these

2686

01:47:20,790 --> 01:47:18,560

things are right at the edge of

2687

01:47:22,870 --> 01:47:20,800

detectability they're that fuzzy little

2688

01:47:24,629 --> 01:47:22,880

dot because we look at them we can first

2689

01:47:26,470 --> 01:47:24,639

see them which is within the fuzzy dot

2690

01:47:28,629 --> 01:47:26,480

stage that's where almost all the stuff

2691

01:47:30,149 --> 01:47:28,639

is taking place at so things like that

2692

01:47:31,270 --> 01:47:30,159

are an option and so would that be

2693

01:47:32,950 --> 01:47:31,280

something that

2694

01:47:34,709 --> 01:47:32,960

uh we'd be interested in resourcing well

2695

01:47:36,310 --> 01:47:34,719

we know we all right it's not like it's

2696

01:47:38,470 --> 01:47:36,320

even a secret we're looking into trying

2697

01:47:39,990 --> 01:47:38,480

to do that uh all the countries do it

2698

01:47:41,270 --> 01:47:40,000

i'd assume so i don't know if they're

2699

01:47:43,350 --> 01:47:41,280

even doing it secretly they might be

2700

01:47:45,030 --> 01:47:43,360

openly doing i'm just not aware of it of

2701

01:47:46,950 --> 01:47:45,040

course there'd be a great thing you'd

2702

01:47:48,310 --> 01:47:46,960

want to do is find a way to distract the

2703

01:47:49,669 --> 01:47:48,320

aircraft carrier fleet if you're not the

2704

01:47:51,109 --> 01:47:49,679

us because

2705

01:47:53,750 --> 01:47:51,119

that's one of our hugest military

2706

01:47:56,310 --> 01:47:53,760

advantages that gigantic ability to send

2707

01:47:57,430 --> 01:47:56,320

an aircraft carrier into a region if you

2708

01:47:59,189 --> 01:47:57,440

can do anything that screws their

2709

01:48:01,030 --> 01:47:59,199

detection capability that outfox them

2710

01:48:02,790 --> 01:48:01,040

that lets you scuttle their return so

2711

01:48:04,870 --> 01:48:02,800

you get a missile into them that changes

2712

01:48:06,310 --> 01:48:04,880

the game enormously and thus would be

2713

01:48:08,709 --> 01:48:06,320

high on almost anybody's list of things

2714

01:48:10,950 --> 01:48:08,719

to try to do uh is that what this was

2715

01:48:13,750 --> 01:48:10,960

the case well i have no idea it might be

2716

01:48:15,430 --> 01:48:13,760

you know again it's not a spaceship

2717

01:48:17,430 --> 01:48:15,440

anyone on this planet made or the

2718

01:48:19,350 --> 01:48:17,440

aircraft anyone on this planet made that

2719

01:48:21,750 --> 01:48:19,360

doesn't mean it wasn't a projector we

2720

01:48:24,070 --> 01:48:21,760

made for instance that's an option

2721

01:48:26,550 --> 01:48:24,080

now if uh

2722

01:48:29,030 --> 01:48:26,560

does this demonstrate to you everything

2723

01:48:30,709 --> 01:48:29,040

that you've just explained to me

2724

01:48:33,510 --> 01:48:30,719

um

2725

01:48:35,910 --> 01:48:33,520

we are uh repeating ourselves and that

2726

01:48:38,149 --> 01:48:35,920

we don't understand

2727

01:48:40,390 --> 01:48:38,159

what has been going on we clearly don't

2728

01:48:42,470 --> 01:48:40,400

understand that and that goes right back

2729

01:48:43,830 --> 01:48:42,480

to what the uap task force reports that

2730

01:48:46,629 --> 01:48:43,840

we don't understand we don't know what

2731

01:48:49,430 --> 01:48:46,639

it is but we also don't understand

2732

01:48:51,990 --> 01:48:49,440

if aliens are visiting this planet it

2733

01:48:53,830 --> 01:48:52,000

would be technology that we wouldn't

2734

01:48:55,510 --> 01:48:53,840

understand right

2735

01:48:57,270 --> 01:48:55,520

potentially um you know there's a

2736

01:48:58,870 --> 01:48:57,280

tendency to think they say well if we

2737

01:49:00,870 --> 01:48:58,880

were to go backward in time everyone

2738

01:49:02,870 --> 01:49:00,880

would think of your gods and point of

2739

01:49:05,669 --> 01:49:02,880

fact i could show a you know a

2740

01:49:07,430 --> 01:49:05,679

blacksmith back in in egypt ancient war

2741

01:49:08,870 --> 01:49:07,440

pyramid days how to build a refrigerator

2742

01:49:11,030 --> 01:49:08,880

nowadays the way that he'd understand in

2743

01:49:12,470 --> 01:49:11,040

less than a day of we just explained it

2744

01:49:14,390 --> 01:49:12,480

our technology is impressive in the

2745

01:49:16,149 --> 01:49:14,400

scientific angle but most of them like

2746

01:49:18,229 --> 01:49:16,159

smartphones computers is pretty

2747

01:49:20,229 --> 01:49:18,239

intuitively obvious it all works on

2748

01:49:21,750 --> 01:49:20,239

stuff that they get you know a primitive

2749

01:49:23,510 --> 01:49:21,760

tribe is not going to not understand

2750

01:49:25,030 --> 01:49:23,520

what a car is for if they need to

2751

01:49:26,709 --> 01:49:25,040

explain to them they might think it's a

2752

01:49:28,550 --> 01:49:26,719

weird monster at first but they could

2753

01:49:30,310 --> 01:49:28,560

hypothesize that it was a chariot and it

2754

01:49:32,790 --> 01:49:30,320

was a weird one we shouldn't assume that

2755

01:49:34,790 --> 01:49:32,800

alien technology is necessarily going to

2756

01:49:36,070 --> 01:49:34,800

completely foul fox us and and be

2757

01:49:38,550 --> 01:49:36,080

something we just don't recognize what

2758

01:49:39,589 --> 01:49:38,560

it is of course that said there's a high

2759

01:49:41,430 --> 01:49:39,599

probability that would completely

2760

01:49:43,589 --> 01:49:41,440

confuse us and look completely alien or

2761

01:49:45,589 --> 01:49:43,599

weird we have no idea how it walked uh

2762

01:49:47,030 --> 01:49:45,599

we also don't want to assume that uh the

2763

01:49:48,390 --> 01:49:47,040

answer is going to be something really

2764

01:49:49,830 --> 01:49:48,400

mysterious it might turn out to just be

2765

01:49:51,830 --> 01:49:49,840

mundane like we but we just didn't think

2766

01:49:53,430 --> 01:49:51,840

of it it's like the paper clip or you

2767

01:49:55,430 --> 01:49:53,440

know other inventions that afterwards

2768

01:49:57,910 --> 01:49:55,440

people go well in retrospect that was

2769

01:50:00,629 --> 01:49:57,920

really obvious but none of us caught it

2770

01:50:02,550 --> 01:50:00,639

you know that happens a lot

2771

01:50:04,070 --> 01:50:02,560

we should never you know humility is an

2772

01:50:05,910 --> 01:50:04,080

important thing for us to always have on

2773

01:50:08,550 --> 01:50:05,920

all these things we don't know what it

2774

01:50:10,790 --> 01:50:08,560

was at this time it might turn out that

2775

01:50:12,550 --> 01:50:10,800

it was a fireworks show from the alien

2776

01:50:13,990 --> 01:50:12,560

civilization show up to say hello and

2777

01:50:15,830 --> 01:50:14,000

they can't believe we didn't catch the

2778

01:50:17,350 --> 01:50:15,840

obvious sign it might be that it was a

2779

01:50:19,189 --> 01:50:17,360

mundane phenomenon that happens all the

2780

01:50:20,870 --> 01:50:19,199

time like ball lightning and we just

2781

01:50:22,870 --> 01:50:20,880

never saw it before it might be

2782

01:50:24,310 --> 01:50:22,880

someone's new technology it might even

2783

01:50:25,589 --> 01:50:24,320

be a spaceship we just had bad vents to

2784

01:50:27,750 --> 01:50:25,599

returns

2785

01:50:29,189 --> 01:50:27,760

and uh what it is right now we don't

2786

01:50:30,870 --> 01:50:29,199

know but we don't want to jump too many

2787

01:50:34,149 --> 01:50:30,880

conclusions about what it could be now

2788

01:50:36,390 --> 01:50:34,159

one of the things uh that you uh have

2789

01:50:37,390 --> 01:50:36,400

presented over the years

2790

01:50:41,510 --> 01:50:37,400

is

2791

01:50:44,470 --> 01:50:41,520

self-replicating self uh manufacturing

2792

01:50:45,910 --> 01:50:44,480

uh drones that an intelligent

2793

01:50:49,910 --> 01:50:45,920

civilization

2794

01:50:52,709 --> 01:50:49,920

uh would use to uh to map the galaxy and

2795

01:50:54,870 --> 01:50:52,719

map the universe and go out and explore

2796

01:50:57,510 --> 01:50:54,880

different alien planets and and that

2797

01:51:00,470 --> 01:50:57,520

would be their job and we will probably

2798

01:51:03,510 --> 01:51:00,480

be doing this soon ourselves

2799

01:51:05,750 --> 01:51:03,520

and could this be an example of

2800

01:51:07,350 --> 01:51:05,760

uh drones that are self-replicating and

2801
01:51:10,629 --> 01:51:07,360

just going out and

2802
01:51:13,030 --> 01:51:10,639

and and checking out the milky way

2803
01:51:14,950 --> 01:51:13,040

of a von neumann probe is usually called

2804
01:51:16,790 --> 01:51:14,960

uh for the mathematician is basically

2805
01:51:19,109 --> 01:51:16,800

idea that you send a little probe and it

2806
01:51:20,390 --> 01:51:19,119

revives the system scans around makes a

2807
01:51:22,390 --> 01:51:20,400

bunch of copies of itself with it go out

2808
01:51:23,510 --> 01:51:22,400

to other sources further away and of

2809
01:51:24,950 --> 01:51:23,520

course it might do your brother things

2810
01:51:26,709 --> 01:51:24,960

too the the version that's called a

2811
01:51:28,709 --> 01:51:26,719

berserker goes out and finds the alien

2812
01:51:29,750 --> 01:51:28,719

life and kills it right there's a lot of

2813
01:51:31,589 --> 01:51:29,760

options you could do there but the whole

2814

01:51:33,430 --> 01:51:31,599

thing works around the idea of a

2815

01:51:35,350 --> 01:51:33,440

self-replicating thing you almost have

2816

01:51:36,390 --> 01:51:35,360

to have this new space travel but it

2817

01:51:38,470 --> 01:51:36,400

doesn't necessarily have to be too

2818

01:51:39,510 --> 01:51:38,480

complex we have from science fiction

2819

01:51:41,189 --> 01:51:39,520

this tends to think of it as

2820

01:51:42,229 --> 01:51:41,199

nanotechnology

2821

01:51:43,830 --> 01:51:42,239

mostly because the only way you can

2822

01:51:45,270 --> 01:51:43,840

really do narrow technology is with

2823

01:51:47,589 --> 01:51:45,280

self-replicating machines they have to

2824

01:51:49,109 --> 01:51:47,599

imitate microbes at all but you can have

2825

01:51:51,589 --> 01:51:49,119

a clanking self-applicator as we call

2826
01:51:53,109 --> 01:51:51,599
that just basically a gigantic factory

2827
01:51:54,709 --> 01:51:53,119
that has the ability to make any

2828
01:51:56,310 --> 01:51:54,719
component needs including the robots to

2829
01:51:58,470 --> 01:51:56,320
go dig up new bits of metal for it to

2830
01:52:00,870 --> 01:51:58,480
make and that would be in many ways like

2831
01:52:02,629 --> 01:52:00,880
us a very complicated system of many

2832
01:52:05,109 --> 01:52:02,639
different components um that's

2833
01:52:06,550 --> 01:52:05,119
self-replicating uh humans have millions

2834
01:52:07,830 --> 01:52:06,560
of different types of self-replicators

2835
01:52:09,910 --> 01:52:07,840
in us that are even genetically related

2836
01:52:12,390 --> 01:52:09,920
to us in the last billion years and we

2837
01:52:14,390 --> 01:52:12,400
use them as part of our machinery um

2838
01:52:16,550 --> 01:52:14,400

would this be would aliens have this

2839

01:52:18,390 --> 01:52:16,560

technology almost certainly if they can

2840

01:52:20,390 --> 01:52:18,400

make it here i expect us to have at

2841

01:52:22,709 --> 01:52:20,400

least the basic technology for this

2842

01:52:24,310 --> 01:52:22,719

inside the next 20 or 30 years

2843

01:52:26,870 --> 01:52:24,320

and i suspect we could put together a

2844

01:52:29,189 --> 01:52:26,880

clanking supplicator now if we wanted to

2845

01:52:30,629 --> 01:52:29,199

it's just that we already have

2846

01:52:32,149 --> 01:52:30,639

mostly self-perpetuating systems that

2847

01:52:34,310 --> 01:52:32,159

don't necessarily benefit from bringing

2848

01:52:35,750 --> 01:52:34,320

that into play we probably could put one

2849

01:52:37,109 --> 01:52:35,760

together if he really wants you a

2850

01:52:39,589 --> 01:52:37,119

machine able to

2851
01:52:41,430 --> 01:52:39,599
make itself from scratch this is not

2852
01:52:45,109 --> 01:52:41,440
necessarily a huge advantage

2853
01:52:46,310 --> 01:52:45,119
it it it's just it's it's a 3d printer

2854
01:52:48,470 --> 01:52:46,320
basically

2855
01:52:50,709 --> 01:52:48,480
it's a 3d printer that is able to print

2856
01:52:51,830 --> 01:52:50,719
all its components and has to have at

2857
01:52:53,510 --> 01:52:51,840
least as one of those components the

2858
01:52:54,709 --> 01:52:53,520
ability to harvest the material it

2859
01:52:57,750 --> 01:52:54,719
prints out of

2860
01:53:00,310 --> 01:52:57,760
yeah land on an asteroid and and start

2861
01:53:02,790 --> 01:53:00,320
cranking stuff out yeah it's great for

2862
01:53:05,109 --> 01:53:02,800
starting up stuff in a new area inside

2863
01:53:07,430 --> 01:53:05,119

an existing communicals a little bit

2864

01:53:08,950 --> 01:53:07,440

less so and so that's probably why we

2865

01:53:09,990 --> 01:53:08,960

wouldn't see one develop the next decade

2866

01:53:11,189 --> 01:53:10,000

or so because it's not really a high

2867

01:53:12,790 --> 01:53:11,199

priority to put something like that

2868

01:53:14,629 --> 01:53:12,800

together but what happened inside the

2869

01:53:16,310 --> 01:53:14,639

century at the latest

2870

01:53:17,669 --> 01:53:16,320

and that's going to change all space

2871

01:53:20,390 --> 01:53:17,679

colonization

2872

01:53:23,270 --> 01:53:20,400

absolutely and so would this be an

2873

01:53:25,270 --> 01:53:23,280

example just based on the evidence that

2874

01:53:26,870 --> 01:53:25,280

has been presented in front of you and

2875

01:53:28,870 --> 01:53:26,880

the rest of the world

2876

01:53:31,669 --> 01:53:28,880

could this just be

2877

01:53:33,189 --> 01:53:31,679

alien probes nothing violent they're not

2878

01:53:35,750 --> 01:53:33,199

here to take over

2879

01:53:37,589 --> 01:53:35,760

anything they're just here to to to do a

2880

01:53:40,470 --> 01:53:37,599

drive-by

2881

01:53:41,990 --> 01:53:40,480

i mean that's always a possibility i i

2882

01:53:43,990 --> 01:53:42,000

one example i like to use a lot of times

2883

01:53:45,589 --> 01:53:44,000

is if it was meant to be a check to just

2884

01:53:47,589 --> 01:53:45,599

see us without us letting see them that

2885

01:53:49,510 --> 01:53:47,599

was pretty sloppy because we spot them

2886

01:53:50,950 --> 01:53:49,520

all the time apparently if on the other

2887

01:53:53,189 --> 01:53:50,960

hand it was meant to be hello it was

2888

01:53:55,109 --> 01:53:53,199

pretty sloppy but we also have to keep

2889

01:53:56,470 --> 01:53:55,119

in mind um he was like well we never

2890

01:53:58,229 --> 01:53:56,480

make that kind of mistake we make

2891

01:53:59,990 --> 01:53:58,239

mistakes all the time all stuff comes

2892

01:54:01,830 --> 01:54:00,000

crashing out all the time too so we

2893

01:54:03,589 --> 01:54:01,840

could actually be seen examples of alien

2894

01:54:04,390 --> 01:54:03,599

technology that was

2895

01:54:05,510 --> 01:54:04,400

not

2896

01:54:08,149 --> 01:54:05,520

as well designed as it should have been

2897

01:54:09,830 --> 01:54:08,159

for the mission involved or which uh

2898

01:54:11,830 --> 01:54:09,840

which uh happened to break down

2899

01:54:13,350 --> 01:54:11,840

coincidentally but the first stuff

2900

01:54:14,709 --> 01:54:13,360

upgrades you sent out on space are

2901
01:54:16,310 --> 01:54:14,719
probably the one that would encounter

2902
01:54:18,070 --> 01:54:16,320
leeway so in many ways your prototype

2903
01:54:19,189 --> 01:54:18,080
because got the head start is whatever's

2904
01:54:21,030 --> 01:54:19,199
going to come across they could be

2905
01:54:23,589 --> 01:54:21,040
messed up once but i don't know why i

2906
01:54:25,189 --> 01:54:23,599
mean an alien spaceship is likely to

2907
01:54:27,109 --> 01:54:25,199
include self-reputation technology but

2908
01:54:29,109 --> 01:54:27,119
nothing about that particular incident

2909
01:54:30,709 --> 01:54:29,119
says self-replicating on the fact you

2910
01:54:32,070 --> 01:54:30,719
know that that if you have the

2911
01:54:33,589 --> 01:54:32,080
technology the one you probably got the

2912
01:54:37,109 --> 01:54:33,599
technology the other

2913
01:54:38,790 --> 01:54:37,119

if it was a probe landing here um

2914

01:54:40,950 --> 01:54:38,800

i will put one cavity on that i really

2915

01:54:42,310 --> 01:54:40,960

don't expect a lot of probes to use

2916

01:54:43,350 --> 01:54:42,320

self-replicating technology wherever

2917

01:54:44,950 --> 01:54:43,360

they could get into kind of collisions

2918

01:54:46,709 --> 01:54:44,960

or damage i think you send the

2919

01:54:48,390 --> 01:54:46,719

self-replicator into the solar system to

2920

01:54:50,390 --> 01:54:48,400

land on an asteroid at least that's how

2921

01:54:52,149 --> 01:54:50,400

i would do it uh an asteroid out in the

2922

01:54:53,589 --> 01:54:52,159

middle of nowhere cannibalize that thing

2923

01:54:55,109 --> 01:54:53,599

to make all the tools you need for in

2924

01:54:56,550 --> 01:54:55,119

that system

2925

01:54:58,629 --> 01:54:56,560

which shouldn't be that many if you just

2926

01:54:59,990 --> 01:54:58,639

do an exploratory and you don't let any

2927

01:55:01,990 --> 01:55:00,000

of the things you send out from there

2928

01:55:03,430 --> 01:55:02,000

have self-replicating ability because

2929

01:55:04,790 --> 01:55:03,440

every time you send out a genuine

2930

01:55:07,589 --> 01:55:04,800

self-replicator

2931

01:55:09,669 --> 01:55:07,599

your odds of mutation and problem uh go

2932

01:55:11,669 --> 01:55:09,679

up a little bit more plus anytime you

2933

01:55:13,270 --> 01:55:11,679

send out more technology you need that's

2934

01:55:15,030 --> 01:55:13,280

something that if the alien race that

2935

01:55:17,350 --> 01:55:15,040

recovers it has hostile intent gives

2936

01:55:19,030 --> 01:55:17,360

them one extra bit to you know retro

2937

01:55:20,229 --> 01:55:19,040

engineer and you should always assume

2938

01:55:21,510 --> 01:55:20,239

that if you do with you know clever

2939

01:55:22,950 --> 01:55:21,520

aliens or monkeys they're going to

2940

01:55:25,270 --> 01:55:22,960

figure out a way to

2941

01:55:26,870 --> 01:55:25,280

back engineer anything you've got

2942

01:55:28,550 --> 01:55:26,880

so what you're saying is there would

2943

01:55:29,990 --> 01:55:28,560

have to be an off switch with the

2944

01:55:32,550 --> 01:55:30,000

replication

2945

01:55:36,390 --> 01:55:32,560

otherwise you would have uh

2946

01:55:39,030 --> 01:55:36,400

trillions to the power of trillions

2947

01:55:40,550 --> 01:55:39,040

drones uh flying around

2948

01:55:42,470 --> 01:55:40,560

yeah and i mean we see that in sofa

2949

01:55:44,149 --> 01:55:42,480

bikini machines too you that paper clip

2950

01:55:45,910 --> 01:55:44,159

maximize or snowy where it turns

2951
01:55:47,589 --> 01:55:45,920
everything into paperclips but we have

2952
01:55:49,910 --> 01:55:47,599
that with software machines and we have

2953
01:55:51,750 --> 01:55:49,920
that built-in off switch say wow why is

2954
01:55:53,430 --> 01:55:51,760
there a kill switch in our cells well

2955
01:55:54,470 --> 01:55:53,440
there has to be otherwise you get you

2956
01:55:55,750 --> 01:55:54,480
know each cell that grows faster than

2957
01:55:57,830 --> 01:55:55,760
the others because it dominates the

2958
01:55:59,189 --> 01:55:57,840
whole area you can basically cancel uh

2959
01:56:01,350 --> 01:55:59,199
so we have telomeres things like that

2960
01:56:02,550 --> 01:56:01,360
that say stop replicating any of the

2961
01:56:04,229 --> 01:56:02,560
cells in your body are designed to

2962
01:56:05,510 --> 01:56:04,239
replicate quickly

2963
01:56:07,270 --> 01:56:05,520

don't get to do it on their own they

2964

01:56:09,350 --> 01:56:07,280

have a built-in kill switch on them sure

2965

01:56:11,510 --> 01:56:09,360

somatic cells those are needed for

2966

01:56:13,109 --> 01:56:11,520

replication that are the ones that

2967

01:56:14,470 --> 01:56:13,119

have the ability to just keep cleaning

2968

01:56:16,470 --> 01:56:14,480

and replicating themselves over and over

2969

01:56:18,070 --> 01:56:16,480

again and they don't they only for

2970

01:56:20,790 --> 01:56:18,080

advance the purpose of recruiting the

2971

01:56:22,070 --> 01:56:20,800

entire organism not just skin cells that

2972

01:56:24,149 --> 01:56:22,080

has to be built in there any

2973

01:56:25,669 --> 01:56:24,159

self-replicating system has to have that

2974

01:56:27,030 --> 01:56:25,679

built in it'll probably eventually

2975

01:56:28,629 --> 01:56:27,040

evolve that way too but anybody who's

2976

01:56:29,750 --> 01:56:28,639

got the technology to make these right

2977

01:56:31,430 --> 01:56:29,760

probably was involved for somebody that

2978

01:56:33,510 --> 01:56:31,440

has that built in is going to say well

2979

01:56:34,870 --> 01:56:33,520

maybe before we do something incredibly

2980

01:56:36,629 --> 01:56:34,880

stupid like destroy the universe or at

2981

01:56:39,270 --> 01:56:36,639

least the galaxy we should actually

2982

01:56:40,870 --> 01:56:39,280

replicate off of you know our own cells

2983

01:56:43,109 --> 01:56:40,880

the biology around us and the lessons is

2984

01:56:44,390 --> 01:56:43,119

learned um although i will say that with

2985

01:56:45,510 --> 01:56:44,400

a grain of salt

2986

01:56:46,709 --> 01:56:45,520

we should never underestimate how

2987

01:56:48,390 --> 01:56:46,719

intelligent aliens are but we should

2988

01:56:51,189 --> 01:56:48,400

also never underestimate how stupid they

2989

01:56:54,310 --> 01:56:51,199

are based on ourselves

2990

01:56:57,430 --> 01:56:54,320

look at ourselves every time look at me

2991

01:56:59,750 --> 01:56:57,440

so uh you can get an intelligence level

2992

01:57:01,669 --> 01:56:59,760

right there but this is the thing

2993

01:57:03,510 --> 01:57:01,679

um and i want to discuss this more when

2994

01:57:06,310 --> 01:57:03,520

we come back off of the break

2995

01:57:09,910 --> 01:57:06,320

it appears uh i want you to put your

2996

01:57:11,750 --> 01:57:09,920

alien e.t hat on isaac

2997

01:57:14,229 --> 01:57:11,760

it appears that they've got an interest

2998

01:57:16,149 --> 01:57:14,239

in our navy we haven't seen tic tacs

2999

01:57:17,430 --> 01:57:16,159

over los angeles we haven't seen tic

3000

01:57:18,229 --> 01:57:17,440

tacs over

3001

01:57:20,390 --> 01:57:18,239

uh

3002

01:57:22,390 --> 01:57:20,400

dayton ohio right i don't think you've

3003

01:57:24,870 --> 01:57:22,400

seen any lately

3004

01:57:26,070 --> 01:57:24,880

from your home but

3005

01:57:32,790 --> 01:57:26,080

why

3006

01:57:35,350 --> 01:57:32,800

in our navy off of both of our coast but

3007

01:57:37,669 --> 01:57:35,360

we don't hear reports of

3008

01:57:40,709 --> 01:57:37,679

the the japanese navy the australian

3009

01:57:43,189 --> 01:57:40,719

navy the the british navy uh the royal

3010

01:57:44,310 --> 01:57:43,199

navy uh with these encounters it just

3011

01:57:47,189 --> 01:57:44,320

seems to be

3012

01:57:48,709 --> 01:57:47,199

the united states if you're et why is

3013

01:57:50,149 --> 01:57:48,719

this

3014

01:57:52,950 --> 01:57:50,159

well we've got a few possible reasons

3015

01:57:54,070 --> 01:57:52,960

this will be the case one if it is et

3016

01:57:55,510 --> 01:57:54,080

it might be that they're particularly

3017

01:57:57,109 --> 01:57:55,520

interested in whatever who's got the

3018

01:57:58,870 --> 01:57:57,119

best technology now navy does have the

3019

01:58:01,189 --> 01:57:58,880

best uh well at least the

3020

01:58:03,350 --> 01:58:01,199

u.s has the best military technology

3021

01:58:05,030 --> 01:58:03,360

usually uh the other option of course is

3022

01:58:07,189 --> 01:58:05,040

if they're basing out detection grids

3023

01:58:09,990 --> 01:58:07,199

same thing we're most likely to spot

3024

01:58:12,790 --> 01:58:10,000

them seeing us right you it's hard to

3025

01:58:13,750 --> 01:58:12,800

hide and if you are trying to hide the

3026

01:58:15,910 --> 01:58:13,760

people who are the best vision of the

3027

01:58:17,750 --> 01:58:15,920

ones most likely catch you doing it so

3028

01:58:19,189 --> 01:58:17,760

that might be the reason why too then

3029

01:58:21,350 --> 01:58:19,199

the flip side of that of course is that

3030

01:58:23,189 --> 01:58:21,360

if it's a terrestrial-based thing the

3031

01:58:24,709 --> 01:58:23,199

people who are trying to look at uh how

3032

01:58:26,070 --> 01:58:24,719

do i test this new prototype they're

3033

01:58:28,390 --> 01:58:26,080

always going to want to go take on the

3034

01:58:30,070 --> 01:58:28,400

a-team for that if you're trying to see

3035

01:58:32,229 --> 01:58:30,080

you know can i get this secret little

3036

01:58:33,510 --> 01:58:32,239

missile or ship or whatever through

3037

01:58:35,030 --> 01:58:33,520

you know you don't go and pester the

3038

01:58:36,790 --> 01:58:35,040

folks in bolivia no offense to bolivia

3039

01:58:37,910 --> 01:58:36,800

you go take on the us navy or the u.s

3040

01:58:39,510 --> 01:58:37,920

air force

3041

01:58:41,510 --> 01:58:39,520

so yeah go to the pros if you want to

3042

01:58:44,310 --> 01:58:41,520

see how good your stuff is yeah and if

3043

01:58:45,990 --> 01:58:44,320

uh if you're arriving off planet here

3044

01:58:46,950 --> 01:58:46,000

and you're going to

3045

01:58:54,149 --> 01:58:46,960

uh

3046

01:58:57,030 --> 01:58:54,159

san diego pretty large naval presence

3047

01:59:00,950 --> 01:58:57,040

norfolk virginia right uh on the east

3048

01:59:04,629 --> 01:59:00,960

coast uh uh the coast of florida huge

3049

01:59:06,390 --> 01:59:04,639

navy shipyards and and naval bases

3050

01:59:08,070 --> 01:59:06,400

probably anywhere on the planet those

3051

01:59:10,629 --> 01:59:08,080

would be the two locations you would go

3052

01:59:12,790 --> 01:59:10,639

to and those are the two locations where

3053

01:59:14,709 --> 01:59:12,800

these sightings have occurred

3054

01:59:16,470 --> 01:59:14,719

also with nosy in the pacific ocean is

3055

01:59:18,070 --> 01:59:16,480

very nearly half the planet and there's

3056

01:59:19,109 --> 01:59:18,080

really only one navy of significance

3057

01:59:20,870 --> 01:59:19,119

that tends to hang out there at the

3058

01:59:23,830 --> 01:59:20,880

atlantic a lot more people play in that

3059

01:59:25,430 --> 01:59:23,840

sea the pacific that's mostly us

3060

01:59:27,990 --> 01:59:25,440

let's take our break right here our

3061

01:59:31,189 --> 01:59:28,000

guest tonight the one and only isaac

3062

01:59:32,950 --> 01:59:31,199

arthur we are discussing the physics of

3063

01:59:35,030 --> 01:59:32,960

a tic tac all that and much more when we

3064

01:59:36,470 --> 01:59:35,040

come back after this short break this is

3065

01:59:44,020 --> 01:59:36,480

fade to black i'm yours jimmy church

3066

01:59:49,990 --> 01:59:48,629

[Music]

3067

01:59:55,510 --> 01:59:50,000

hi everybody this is rob halpert the

3068

01:59:59,430 --> 01:59:57,350

why is it we're not very good with our

3069

02:00:01,189 --> 01:59:59,440

health regiment until it's too late we

3070

02:00:03,030 --> 02:00:01,199

don't put oil in the car until the

3071

02:00:05,830 --> 02:00:03,040

engine blows up when the body's out of

3072

02:00:08,070 --> 02:00:05,840

balance your health is not so good give

3073

02:00:11,430 --> 02:00:08,080

your body some love log on to get the

3074

02:00:13,589 --> 02:00:11,440

tea.com that's get the tea.com try our

3075

02:00:16,550 --> 02:00:13,599

life change tea which cleanses you from

3076

02:00:18,709 --> 02:00:16,560

harmful intruders a clean colon is one

3077

02:00:20,629 --> 02:00:18,719

of the ways to bring the body in balance

3078

02:00:23,350 --> 02:00:20,639

we also carry organic supplements to

3079

02:00:25,229 --> 02:00:23,360

help you get where you need to go so do

3080

02:00:29,350 --> 02:00:25,239

your body a favor log on to

3081

02:00:31,589 --> 02:00:29,360

getthetea.com that's get the ttea.com

3082

02:00:33,990 --> 02:00:31,599

you can even visit our sales page to

3083

02:00:36,310 --> 02:00:34,000

save some dough does anybody call money

3084

02:00:38,390 --> 02:00:36,320

dough anymore anyway if you're looking

3085

02:00:41,750 --> 02:00:38,400

for short helpful health tips go to

3086

02:00:44,709 --> 02:00:41,760

youtube and punch in health matters now

3087

02:00:45,910 --> 02:00:44,719

that's health matters now

3088

02:00:49,589 --> 02:00:45,920

so

3089

02:00:51,910 --> 02:00:49,599

log on to getthet.com shop get balanced

3090

02:00:54,070 --> 02:00:51,920

then learn some cool tips at health

3091

02:00:56,629 --> 02:00:54,080

matters now you'll be glad you did

3092

02:00:58,470 --> 02:00:56,639

that's get the tea dot com

3093

02:01:01,830 --> 02:00:58,480

this is jimmy church of fade to black

3094

02:01:05,030 --> 02:01:01,840

and i only drink fade to black blend

3095

02:01:06,629 --> 02:01:05,040

coffee from river moon just click on the

3096

02:01:08,390 --> 02:01:06,639

river moon coffee banner at jimmy

3097

02:01:12,390 --> 02:01:08,400

jimmychurchradio.com

3098

02:01:15,109 --> 02:01:12,400

promo code f2b blend

3099

02:01:17,830 --> 02:01:15,119

this is the only way forward

3100

02:01:19,360 --> 02:01:17,840

this is made to black

3101

02:01:23,270 --> 02:01:19,370

make contact

3102

02:01:28,070 --> 02:01:25,109

when you're in the house for longer

3103

02:01:30,550 --> 02:01:28,080

periods of time you can see them flying

3104

02:01:32,229 --> 02:01:30,560

or running across the floor

3105

02:01:35,589 --> 02:01:32,239

ooh yuck

3106

02:01:39,830 --> 02:01:35,599

they're unhealthy gross and disgusting

3107

02:01:42,950 --> 02:01:39,840

bugs i loathe bugs we keep a clean home

3108

02:01:45,030 --> 02:01:42,960

but occasionally bugs show up well i

3109

02:01:48,870 --> 02:01:45,040

found something that is tougher than

3110

02:01:52,149 --> 02:01:48,880

bugs orange guard on contact it kills

3111

02:01:55,750 --> 02:01:52,159

hidden bugs including ants roaches and

3112

02:01:58,149 --> 02:01:55,760

fleas plus orange guard is a residual

3113

02:02:00,550 --> 02:01:58,159

repellent all of the ingredients of

3114

02:02:02,790 --> 02:02:00,560

orange guard are on the fda generally

3115

02:02:05,109 --> 02:02:02,800

recognized as safe list

3116

02:02:08,870 --> 02:02:05,119

orange guard may be used around food

3117

02:02:10,870 --> 02:02:08,880

humans and pets it comes with a 30-day

3118

02:02:13,470 --> 02:02:10,880

money-back guarantee

3119

02:02:16,830 --> 02:02:13,480

orange guard available at

3120

02:02:18,629 --> 02:02:16,840

orangeguard.com whole foods and ace

3121

02:02:21,910 --> 02:02:18,639

hardware

3122

02:02:24,629 --> 02:02:21,920

gold loves chaos uncertainty and

3123

02:02:26,550 --> 02:02:24,639

disarray history shows us what gold does

3124

02:02:28,310 --> 02:02:26,560

when people aren't sure aren't sure

3125

02:02:31,109 --> 02:02:28,320

about the government the stock market

3126

02:02:33,830 --> 02:02:31,119

their jobs or their retirement savings

3127

02:02:35,750 --> 02:02:33,840

our national debt is skyrocketing gold

3128

02:02:37,990 --> 02:02:35,760

and other precious metals are a defense

3129

02:02:40,709 --> 02:02:38,000

measure against inflation and a stock

3130

02:02:42,950 --> 02:02:40,719

market that might take years to recover

3131

02:02:45,589 --> 02:02:42,960

so what can you do right now to protect

3132

02:02:47,510 --> 02:02:45,599

yourself call united gold group we offer

3133

02:02:50,629 --> 02:02:47,520

gold and other precious metals delivered

3134

02:02:52,550 --> 02:02:50,639

securely within 72 hours are you worried

3135

02:02:55,990 --> 02:02:52,560

about the stock market we can also help

3136

02:02:59,830 --> 02:02:56,000

you set up a real gold or silver ira or

3137

02:03:02,310 --> 02:02:59,840

a 401k safe and secure united gold group

3138

02:03:03,910 --> 02:03:02,320

makes gold ownership affordable call now

3139

02:03:06,149 --> 02:03:03,920

and get up to twenty five hundred

3140

02:03:15,510 --> 02:03:06,159

dollars in free gold or silver with a

3141

02:03:15,520 --> 02:03:25,020

or visit unitedgoldgroup.com

3142

02:03:32,070 --> 02:03:27,990

[Applause]

3143

02:03:34,790 --> 02:03:32,080

want to know a secret i love ponies i

3144

02:03:36,629 --> 02:03:34,800

really love ponies i'm serious

3145

02:03:38,390 --> 02:03:36,639

i couldn't stay sane without pawn

3146

02:03:40,470 --> 02:03:38,400

instabrush

3147

02:03:46,870 --> 02:03:40,480

why fade to black

3148

02:03:52,910 --> 02:03:49,109

this is fade to black with jimmy church

3149

02:04:11,350 --> 02:03:52,920

on the game changer radio network

3150

02:04:14,870 --> 02:04:11,360

[Music]

3151

02:04:18,550 --> 02:04:14,880

welcome back i'm delayed

3152

02:04:19,589 --> 02:04:18,560

i'm in twitter i'm in the chat room

3153

02:04:21,510 --> 02:04:19,599

uh

3154

02:04:23,470 --> 02:04:21,520

check out

3155

02:04:25,430 --> 02:04:23,480

his

3156

02:04:28,550 --> 02:04:25,440

youtube

3157

02:04:31,270 --> 02:04:28,560

channel see uh there you go isaac

3158

02:04:32,950 --> 02:04:31,280

that's what i'm doing right now

3159

02:04:36,069 --> 02:04:32,960

i gotta get you more followers more

3160

02:04:37,270 --> 02:04:36,079

subscribers okay like you need it like

3161

02:04:39,589 --> 02:04:37,280

you needed

3162

02:04:41,910 --> 02:04:39,599

um okay

3163

02:04:45,030 --> 02:04:41,920

now let's change gears

3164

02:04:49,589 --> 02:04:45,040

and uh and let's bump heads a little bit

3165

02:04:52,470 --> 02:04:49,599

um uh in the kindest gentlest uh fashion

3166

02:04:53,270 --> 02:04:52,480

but it's this um my argument

3167

02:04:55,430 --> 02:04:53,280

is

3168

02:04:57,109 --> 02:04:55,440

i think it's very fundamental

3169

02:05:01,189 --> 02:04:57,119

when uh

3170

02:05:03,270 --> 02:05:01,199

any of the fermi paradoxians approach me

3171

02:05:08,629 --> 02:05:03,280

and and they bring up you know the great

3172

02:05:11,430 --> 02:05:08,639

filters and and and all of this i i my

3173

02:05:13,830 --> 02:05:11,440

i go fundamental which is this you

3174

02:05:15,990 --> 02:05:13,840

cannot prove to me

3175

02:05:18,870 --> 02:05:16,000

that we are unique

3176
02:05:20,629 --> 02:05:18,880
you can't prove to me that the life out

3177
02:05:23,430 --> 02:05:20,639
there is rare

3178
02:05:26,390 --> 02:05:23,440
the proof is the opposite

3179
02:05:28,709 --> 02:05:26,400
and that is particles only combine so

3180
02:05:31,669 --> 02:05:28,719
many different ways that's it it's

3181
02:05:32,830 --> 02:05:31,679
finite and the magic that happens on

3182
02:05:36,669 --> 02:05:32,840
this planet

3183
02:05:38,470 --> 02:05:36,679
happens in an infinite sense

3184
02:05:42,149 --> 02:05:38,480
everywhere

3185
02:05:43,430 --> 02:05:42,159
that's that's it i and i have that proof

3186
02:05:45,350 --> 02:05:43,440
you don't

3187
02:05:48,390 --> 02:05:45,360
and i'm not specifically talking about

3188
02:05:51,589 --> 02:05:48,400

you isaac but but but

3189

02:05:54,950 --> 02:05:51,599

uh life is unstoppable we've tried to

3190

02:05:57,910 --> 02:05:54,960

stop it on this planet many times um and

3191

02:06:00,390 --> 02:05:57,920

and it just comes bouncing back

3192

02:06:01,189 --> 02:06:00,400

and and that's it and it has to be that

3193

02:06:03,189 --> 02:06:01,199

way

3194

02:06:05,189 --> 02:06:03,199

out there throughout the universe and

3195

02:06:06,149 --> 02:06:05,199

that's it there there is no argument

3196

02:06:07,030 --> 02:06:06,159

here

3197

02:06:09,990 --> 02:06:07,040

so

3198

02:06:10,790 --> 02:06:10,000

the the amount of life just in our milky

3199

02:06:13,910 --> 02:06:10,800

way

3200

02:06:15,990 --> 02:06:13,920

has to be extraordinary and we're out

3201

02:06:18,229 --> 02:06:16,000

there trying to find exoplanets they're

3202

02:06:20,870 --> 02:06:18,239

doing the same thing and they know that

3203

02:06:24,229 --> 02:06:20,880

we're here and i i don't think that that

3204

02:06:25,910 --> 02:06:24,239

is uh open to debate isaac

3205

02:06:27,669 --> 02:06:25,920

well everything's open debate i would

3206

02:06:29,270 --> 02:06:27,679

say that i would not be surprised to

3207

02:06:32,550 --> 02:06:29,280

find alien life

3208

02:06:33,950 --> 02:06:32,560

on mars or on venus even or titan that

3209

02:06:35,510 --> 02:06:33,960

had originated there or europa

3210

02:06:36,790 --> 02:06:35,520

organometallista everyone always says

3211

02:06:39,350 --> 02:06:36,800

you're open overlooks the other moons

3212

02:06:40,790 --> 02:06:39,360

are just as good um i would not be

3213

02:06:43,189 --> 02:06:40,800

surprised if life evolved separately on

3214

02:06:45,350 --> 02:06:43,199

those places i also would not be

3215

02:06:47,510 --> 02:06:45,360

surprised if we explored every last

3216

02:06:49,750 --> 02:06:47,520

planet in this entire galaxy and never

3217

02:06:51,270 --> 02:06:49,760

found another single living organism

3218

02:06:53,350 --> 02:06:51,280

i also wouldn't be too surprised we

3219

02:06:55,350 --> 02:06:53,360

found life on almost every planet out

3220

02:06:57,189 --> 02:06:55,360

there that could and none of it ever got

3221

02:06:58,629 --> 02:06:57,199

a brain you know if it depends on if you

3222

02:06:59,669 --> 02:06:58,639

ask the biologist they often say there's

3223

02:07:02,390 --> 02:06:59,679

a lot of different pathways that could

3224

02:07:03,910 --> 02:07:02,400

go it might be they're all covered in lj

3225

02:07:06,069 --> 02:07:03,920

we don't know the odds and the problem

3226

02:07:07,510 --> 02:07:06,079

is the numbers involved were so huge you

3227

02:07:10,470 --> 02:07:07,520

say well there are trillions of plants

3228

02:07:12,390 --> 02:07:10,480

out there this is true uh problem is if

3229

02:07:15,109 --> 02:07:12,400

the odds of life get intelligent

3230

02:07:16,709 --> 02:07:15,119

on the planet is one in a quadrillion

3231

02:07:18,709 --> 02:07:16,719

then your odds are finally on a trillion

3232

02:07:20,629 --> 02:07:18,719

planets only one thousand but where do

3233

02:07:22,310 --> 02:07:20,639

you get one in a future but where do you

3234

02:07:23,830 --> 02:07:22,320

get where do you get one in a

3235

02:07:26,709 --> 02:07:23,840

quadrillion

3236

02:07:29,510 --> 02:07:26,719

i would say it's one to one it's not one

3237

02:07:31,830 --> 02:07:29,520

in quadrillion i would say that it's the

3238

02:07:33,350 --> 02:07:31,840

it's the exact opposite of that

3239

02:07:35,030 --> 02:07:33,360

and it could be really huge we don't

3240

02:07:37,589 --> 02:07:35,040

know but like as an example there's

3241

02:07:38,870 --> 02:07:37,599

about a quadrillion stars that are close

3242

02:07:40,149 --> 02:07:38,880

enough to us

3243

02:07:41,510 --> 02:07:40,159

that the light from them could have

3244

02:07:43,270 --> 02:07:41,520

reached us when the universe is or

3245

02:07:44,709 --> 02:07:43,280

enough to produce life right that's kind

3246

02:07:46,550 --> 02:07:44,719

of where i get that loose one from the

3247

02:07:48,470 --> 02:07:46,560

old dyson delivery concept

3248

02:07:50,950 --> 02:07:48,480

the the thousand or so million or so in

3249

02:07:52,709 --> 02:07:50,960

the us galaxies could have civilizations

3250

02:07:54,629 --> 02:07:52,719

that a billion years ago were already

3251

02:07:56,629 --> 02:07:54,639

big enough that we could see them as

3252

02:07:58,229 --> 02:07:56,639

culture chef three civilizations galaxy

3253

02:07:59,910 --> 02:07:58,239

spanning ones and then we'd be able to

3254

02:08:01,589 --> 02:07:59,920

see them back here that's usually where

3255

02:08:04,310 --> 02:08:01,599

i get that bubble of we haven't detected

3256

02:08:06,470 --> 02:08:04,320

any of those with dyson seti right that

3257

02:08:08,149 --> 02:08:06,480

at least none of them are existing that

3258

02:08:09,510 --> 02:08:08,159

way of course they might not be visible

3259

02:08:12,149 --> 02:08:09,520

that way for the number of reasons that

3260

02:08:14,470 --> 02:08:12,159

they exist but if they exist and they

3261

02:08:16,550 --> 02:08:14,480

were visible that way we'd see them

3262

02:08:18,310 --> 02:08:16,560

so they can't exist that way or follow

3263

02:08:20,229 --> 02:08:18,320

that model whether that's because they

3264

02:08:22,470 --> 02:08:20,239

don't exist or they just don't follow

3265

02:08:23,990 --> 02:08:22,480

that model or one of our key concepts is

3266

02:08:25,030 --> 02:08:24,000

wrong any of those answers potentially

3267

02:08:27,990 --> 02:08:25,040

be valid

3268

02:08:30,950 --> 02:08:28,000

and and i agree with that and there's a

3269

02:08:34,870 --> 02:08:30,960

there's another part to this

3270

02:08:37,109 --> 02:08:34,880

we keep focusing on because it's our

3271

02:08:39,270 --> 02:08:37,119

knowledge base and i get that you know

3272

02:08:42,950 --> 02:08:39,280

we only know what we know here

3273

02:08:45,189 --> 02:08:42,960

but we keep focusing on we would see

3274

02:08:48,149 --> 02:08:45,199

and i've heard you say this many times

3275

02:08:50,390 --> 02:08:48,159

we would see travel between star systems

3276

02:08:54,709 --> 02:08:50,400

we would see evidence of that we would

3277

02:08:56,069 --> 02:08:54,719

see this we would but wait a minute

3278

02:08:59,350 --> 02:08:56,079

we

3279

02:09:01,189 --> 02:08:59,360

what if their method of travel has

3280

02:09:02,390 --> 02:09:01,199

nothing to do

3281

02:09:05,430 --> 02:09:02,400

with uh

3282

02:09:08,229 --> 02:09:05,440

a physical traveling

3283

02:09:10,550 --> 02:09:08,239

that if there's something else in play

3284

02:09:12,629 --> 02:09:10,560

where they are able to go from star

3285

02:09:14,709 --> 02:09:12,639

system to star system

3286

02:09:16,830 --> 02:09:14,719

without moving at all

3287

02:09:21,510 --> 02:09:16,840

and and we wouldn't see

3288

02:09:23,589 --> 02:09:21,520

uh space freighters you know space trade

3289

02:09:25,350 --> 02:09:23,599

you know i imagine it was like uh one of

3290

02:09:27,589 --> 02:09:25,360

my favorite sci-fi shows even when star

3291

02:09:29,350 --> 02:09:27,599

trek or star wars a star gate and on

3292

02:09:30,709 --> 02:09:29,360

that one you would never need a

3293

02:09:32,950 --> 02:09:30,719

spaceship because you just go from one

3294

02:09:35,109 --> 02:09:32,960

planet to another fight walk through the

3295

02:09:36,310 --> 02:09:35,119

gate on the planet and we shouldn't want

3296

02:09:37,910 --> 02:09:36,320

an option like that but then that's

3297

02:09:39,669 --> 02:09:37,920

that's that multiverse example you're

3298

02:09:41,189 --> 02:09:39,679

talking about all the infinite numbers

3299

02:09:42,870 --> 02:09:41,199

of possibilities well if there are an

3300

02:09:44,790 --> 02:09:42,880

infinite number of uninhabited earths

3301

02:09:47,270 --> 02:09:44,800

out there or very near the infinites

3302

02:09:48,950 --> 02:09:47,280

it's like 10 to the 10 to the 77th right

3303

02:09:50,709 --> 02:09:48,960

uh which is a number so huge that you

3304

02:09:51,910 --> 02:09:50,719

could actually do one followed by zero

3305

02:09:53,589 --> 02:09:51,920

as wrapped all the way on the planet

3306

02:09:55,430 --> 02:09:53,599

over and over and over and over again i

3307

02:09:57,270 --> 02:09:55,440

think the number is eighty i think the

3308

02:10:00,390 --> 02:09:57,280

number is eighty-six i went out of

3309

02:10:03,750 --> 02:10:00,400

plastic to colonize the numbers 80.

3310

02:10:07,189 --> 02:10:03,760

isaac the number's 86 not 77 i'm just is

3311

02:10:08,390 --> 02:10:07,199

it is it 10 to 10 86

3312

02:10:11,589 --> 02:10:08,400

i think that was based off the hubble

3313

02:10:13,030 --> 02:10:11,599

value of the right

3314

02:10:16,069 --> 02:10:13,040

argument

3315

02:10:17,510 --> 02:10:16,079

uh i'm i'm arguing with the physicist no

3316

02:10:20,470 --> 02:10:17,520

i was just pulling a number out of the

3317

02:10:22,149 --> 02:10:20,480

air but see you you bit though you bit

3318

02:10:23,030 --> 02:10:22,159

um the

3319

02:10:25,830 --> 02:10:23,040

uh

3320

02:10:26,709 --> 02:10:25,840

but but the concept that i am suggesting

3321

02:10:28,950 --> 02:10:26,719

here

3322

02:10:31,189 --> 02:10:28,960

is that um

3323

02:10:33,910 --> 02:10:31,199

we keep thinking of

3324

02:10:36,069 --> 02:10:33,920

the the physical side of things and

3325

02:10:38,470 --> 02:10:36,079

and and the speed of light and and the

3326

02:10:40,229 --> 02:10:38,480

physics as we understand it here i i i

3327

02:10:41,750 --> 02:10:40,239

get all of these really key there though

3328

02:10:43,669 --> 02:10:41,760

because we say

3329

02:10:45,189 --> 02:10:43,679

we is usually physicists and you're

3330

02:10:46,709 --> 02:10:45,199

asking astronomy for a solution he's

3331

02:10:48,310 --> 02:10:46,719

going to give you an astronomical one

3332

02:10:49,830 --> 02:10:48,320

when you ask a physicist for how the

3333

02:10:51,910 --> 02:10:49,840

universe is based he's going to give you

3334

02:10:53,750 --> 02:10:51,920

a physical one ask a sociologist or

3335

02:10:55,270 --> 02:10:53,760

historian to give a different one

3336

02:10:59,430 --> 02:10:55,280

and okay

3337

02:11:01,109 --> 02:10:59,440

so but their version of travel

3338

02:11:02,709 --> 02:11:01,119

is not going to be something that we

3339

02:11:05,830 --> 02:11:02,719

understand right now you can think

3340

02:11:06,790 --> 02:11:05,840

outside the box all all that you want

3341

02:11:10,790 --> 02:11:06,800

but

3342

02:11:13,750 --> 02:11:10,800

even that isn't isn't enough there has

3343

02:11:15,990 --> 02:11:13,760

to be something that they are doing that

3344

02:11:18,390 --> 02:11:16,000

we just clearly don't understand yet and

3345

02:11:20,149 --> 02:11:18,400

even if they arrived here and tried to

3346

02:11:22,069 --> 02:11:20,159

explain it to us

3347

02:11:24,069 --> 02:11:22,079

we wouldn't get it

3348

02:11:26,790 --> 02:11:24,079

and i i don't i don't think it is a

3349

02:11:28,470 --> 02:11:26,800

physical form of travel i don't

3350

02:11:30,069 --> 02:11:28,480

that's a possibility again it might be

3351

02:11:32,069 --> 02:11:30,079

something we weren't even looking for if

3352

02:11:34,470 --> 02:11:32,079

i was trying to find the the future of

3353

02:11:35,589 --> 02:11:34,480

motor travel in the 1900s as harry ford

3354

02:11:37,270 --> 02:11:35,599

said you'd ask people what they want

3355

02:11:39,030 --> 02:11:37,280

they'd say a faster horse so if i was

3356

02:11:40,709 --> 02:11:39,040

trying to detect it i'd be looking for

3357

02:11:42,790 --> 02:11:40,719

clearly a faster horse must produce more

3358

02:11:44,470 --> 02:11:42,800

waste than a normal horse thus if it was

3359

02:11:46,950 --> 02:11:44,480

around this road should be covered in a

3360

02:11:48,550 --> 02:11:46,960

lot more excrement well that would

3361

02:11:51,350 --> 02:11:48,560

probably be about as valuable as that

3362

02:11:53,030 --> 02:11:51,360

answer was too so um you know we don't

3363

02:11:55,350 --> 02:11:53,040

know what to look for if it's not our

3364

02:11:57,189 --> 02:11:55,360

own technology or known physics i only

3365

02:11:58,950 --> 02:11:57,199

would modify that by saying we don't

3366

02:12:00,310 --> 02:11:58,960

know how their technology works we don't

3367

02:12:02,390 --> 02:12:00,320

know what the answer's gonna be but we

3368

02:12:04,790 --> 02:12:02,400

have to expand it i'll say

3369

02:12:05,990 --> 02:12:04,800

we know with the fermi paradox or the

3370

02:12:07,270 --> 02:12:06,000

versions of it that involve actual

3371

02:12:09,030 --> 02:12:07,280

sightings too

3372

02:12:10,310 --> 02:12:09,040

something's missing from the equation

3373

02:12:13,030 --> 02:12:10,320

we're all pre you know none of the

3374

02:12:14,069 --> 02:12:13,040

answers really fit quite correct that

3375

02:12:15,589 --> 02:12:14,079

might be that we're wrong about how

3376

02:12:17,189 --> 02:12:15,599

healing and technologies work and how

3377

02:12:18,550 --> 02:12:17,199

they develop well it might be that

3378

02:12:19,910 --> 02:12:18,560

something more fundamental could be

3379

02:12:21,910 --> 02:12:19,920

wrong you know we shouldn't even rule

3380

02:12:23,430 --> 02:12:21,920

out the universe might be infinitely old

3381

02:12:25,350 --> 02:12:23,440

uh it might be that it's actually 10

3382

02:12:26,790 --> 02:12:25,360

minutes old we might be in a simulation

3383

02:12:29,030 --> 02:12:26,800

these are possible answers that are

3384

02:12:30,870 --> 02:12:29,040

legitimate to look at uh it could be

3385

02:12:33,430 --> 02:12:30,880

that we really messed up some basic

3386

02:12:34,709 --> 02:12:33,440

piece of our basic biology or physics it

3387

02:12:36,069 --> 02:12:34,719

could be could be just be really wrong

3388

02:12:36,950 --> 02:12:36,079

because these are almost always based

3389

02:12:38,709 --> 02:12:36,960

off of

3390

02:12:40,709 --> 02:12:38,719

based on what we know

3391

02:12:42,709 --> 02:12:40,719

something we know is not right well

3392

02:12:43,990 --> 02:12:42,719

maybe something we know is wrong instead

3393

02:12:46,069 --> 02:12:44,000

you know

3394

02:12:46,950 --> 02:12:46,079

we don't know how their technology works

3395

02:12:48,470 --> 02:12:46,960

maybe

3396

02:12:50,390 --> 02:12:48,480

the answer is simply that we've made a

3397

02:12:51,750 --> 02:12:50,400

fundamental mistake in all science as

3398

02:12:53,669 --> 02:12:51,760

opposed to simply not learn something

3399

02:12:54,870 --> 02:12:53,679

new yet too we can't rule those problems

3400

02:12:56,550 --> 02:12:54,880

out and it's the problem with trying to

3401

02:12:58,629 --> 02:12:56,560

think outside the boxes

3402

02:13:00,950 --> 02:12:58,639

you first have to actually get out of

3403

02:13:02,950 --> 02:13:00,960

the box to do that and you also need to

3404

02:13:04,390 --> 02:13:02,960

make sure your tools are working because

3405

02:13:05,750 --> 02:13:04,400

once you get that cam outside look at

3406

02:13:07,669 --> 02:13:05,760

the exterior of the box doesn't do any

3407

02:13:09,109 --> 02:13:07,679

good if the camera doesn't work

3408

02:13:10,629 --> 02:13:09,119

well because you just don't even have a

3409

02:13:12,069 --> 02:13:10,639

functioning camera

3410

02:13:14,069 --> 02:13:12,079

and and we're trying to look at

3411

02:13:17,350 --> 02:13:14,079

something uh

3412

02:13:19,830 --> 02:13:17,360

with our uh technology telescopes and

3413

02:13:21,430 --> 02:13:19,840

and things even our own eyeballs that

3414

02:13:24,229 --> 02:13:21,440

are only seeing

3415

02:13:25,750 --> 02:13:24,239

where we are in this frequency

3416

02:13:27,750 --> 02:13:25,760

we're looking for something that could

3417

02:13:30,550 --> 02:13:27,760

be just completely invisible to our

3418

02:13:32,069 --> 02:13:30,560

technology completely invisible you uh

3419

02:13:34,069 --> 02:13:32,079

you go to another dimension to use your

3420

02:13:35,270 --> 02:13:34,079

travel so we open a portal up we stick a

3421

02:13:36,629 --> 02:13:35,280

camera through and we say we don't see

3422

02:13:37,669 --> 02:13:36,639

anything at all and it turns out the

3423

02:13:39,510 --> 02:13:37,679

reason for that is in that universe

3424

02:13:39,900 --> 02:13:39,520

there's no photons right they just don't

3425

02:13:41,589 --> 02:13:39,910

exist

3426

02:13:44,790 --> 02:13:41,599

[Laughter]

3427

02:13:47,990 --> 02:13:44,800

that's exactly my point that's exactly

3428

02:13:50,390 --> 02:13:48,000

my point now uh let's let's take things

3429

02:13:51,229 --> 02:13:50,400

a little bit further

3430

02:13:52,790 --> 02:13:51,239

let's

3431

02:13:53,750 --> 02:13:52,800

suppose

3432

02:13:56,069 --> 02:13:53,760

that

3433

02:13:59,750 --> 02:13:56,079

uh the cat gets out of the back right

3434

02:14:01,669 --> 02:13:59,760

and and the government says look uh

3435

02:14:03,430 --> 02:14:01,679

e.t is here

3436

02:14:06,310 --> 02:14:03,440

they have been visiting

3437

02:14:09,109 --> 02:14:06,320

the objects that have been seen

3438

02:14:13,189 --> 02:14:09,119

um are are real

3439

02:14:15,589 --> 02:14:13,199

how does this change your concept into

3440

02:14:17,750 --> 02:14:15,599

uh how they are getting here and why we

3441

02:14:19,830 --> 02:14:17,760

are not seeing them

3442

02:14:21,430 --> 02:14:19,840

i have to be honest i was a skeptic side

3443

02:14:23,910 --> 02:14:21,440

of this so long in terms of the physics

3444

02:14:25,990 --> 02:14:23,920

of it by probably my first response to

3445

02:14:27,990 --> 02:14:26,000

them coming out and saying no seriously

3446

02:14:30,390 --> 02:14:28,000

et's been here we've had negotiations

3447

02:14:31,990 --> 02:14:30,400

with us ah it's a lying political trick

3448

02:14:33,669 --> 02:14:32,000

of some kind

3449

02:14:35,990 --> 02:14:33,679

but uh i mean if they came out and said

3450

02:14:37,189 --> 02:14:36,000

it and they got the evidence for it uh

3451

02:14:38,550 --> 02:14:37,199

i'd like to think that i just presented

3452

02:14:40,550 --> 02:14:38,560

with evidence that i would change my

3453

02:14:42,390 --> 02:14:40,560

mind appropriately but um

3454

02:14:43,910 --> 02:14:42,400

how would it change our world for you

3455

02:14:45,270 --> 02:14:43,920

i'm not sure if you would change it that

3456

02:14:46,390 --> 02:14:45,280

much because i mean you know you ask

3457

02:14:47,830 --> 02:14:46,400

most people do you believe in aliens

3458

02:14:51,189 --> 02:14:47,840

these days the poles are usually yes

3459

02:14:52,470 --> 02:14:51,199

they do yes that's right yeah um and uh

3460

02:14:53,910 --> 02:14:52,480

yeah i mean usually it's like well do

3461

02:14:55,830 --> 02:14:53,920

the skeptics believe in aliens both the

3462

02:14:57,750 --> 02:14:55,840

acts i'm on that arch skeptic side in

3463

02:14:59,990 --> 02:14:57,760

terms of i don't think there's any eti's

3464

02:15:01,430 --> 02:15:00,000

within our galaxy most scientists think

3465

02:15:04,310 --> 02:15:01,440

there is yeah they don't think they're

3466

02:15:06,149 --> 02:15:04,320

visiting us right now um how would it

3467

02:15:08,229 --> 02:15:06,159

change our world view well i mean being

3468

02:15:09,990 --> 02:15:08,239

presented with the reality of it in your

3469

02:15:12,149 --> 02:15:10,000

face you know they are part of your

3470

02:15:13,589 --> 02:15:12,159

day-to-day life that absolutely is

3471

02:15:15,109 --> 02:15:13,599

different than having your head as a

3472

02:15:17,750 --> 02:15:15,119

theoretical model but it does give you a

3473

02:15:20,069 --> 02:15:17,760

basis and there's a part of me that says

3474

02:15:22,629 --> 02:15:20,079

a week later it'd be old news

3475

02:15:25,510 --> 02:15:22,639

i i i you you're absolutely right with

3476

02:15:27,589 --> 02:15:25,520

that we've been we've been pummeled with

3477

02:15:29,910 --> 02:15:27,599

these ideas and theories you know with

3478

02:15:32,870 --> 02:15:29,920

hollywood and books and and eyewitness

3479

02:15:34,709 --> 02:15:32,880

testimony my own sightings you know it's

3480

02:15:37,830 --> 02:15:34,719

been going on for so long that if the

3481

02:15:39,910 --> 02:15:37,840

big reveal just happened

3482

02:15:41,430 --> 02:15:39,920

probably 15 minutes

3483

02:15:44,310 --> 02:15:41,440

yeah you said a week i think you're

3484

02:15:46,390 --> 02:15:44,320

being very generous i'm going 15 minutes

3485

02:15:48,550 --> 02:15:46,400

life still goes on here

3486

02:15:51,030 --> 02:15:48,560

um but there's there's

3487

02:15:52,629 --> 02:15:51,040

i want to go back to the technology for

3488

02:15:56,149 --> 02:15:52,639

a second

3489

02:15:57,990 --> 02:15:56,159

there has been including myself isaac

3490

02:15:59,910 --> 02:15:58,000

a lot of

3491

02:16:03,109 --> 02:15:59,920

sightings that

3492

02:16:05,589 --> 02:16:03,119

have appeared in the sky

3493

02:16:07,430 --> 02:16:05,599

and then disappeared

3494

02:16:10,550 --> 02:16:07,440

i've seen it myself

3495

02:16:12,069 --> 02:16:10,560

appeared and then disappeared

3496

02:16:13,589 --> 02:16:12,079

is this now

3497

02:16:16,709 --> 02:16:13,599

is this travel

3498

02:16:19,830 --> 02:16:16,719

or is this interdimensional is this you

3499

02:16:22,069 --> 02:16:19,840

know a parallel world multiverse

3500

02:16:23,109 --> 02:16:22,079

thing that is happening where there

3501

02:16:24,229 --> 02:16:23,119

isn't

3502

02:16:27,030 --> 02:16:24,239

uh

3503

02:16:30,629 --> 02:16:27,040

a physical entrance into our atmosphere

3504

02:16:32,389 --> 02:16:30,639

that it is just appearing here

3505

02:16:33,750 --> 02:16:32,399

it could be any of those without knowing

3506

02:16:35,589 --> 02:16:33,760

what i mean and here's the other thing

3507

02:16:37,669 --> 02:16:35,599

it could be multiple of those two

3508

02:16:39,910 --> 02:16:37,679

because just because it turns out one of

3509

02:16:41,830 --> 02:16:39,920

these objects is they say

3510

02:16:44,070 --> 02:16:41,840

99 examples of something being right

3511

02:16:46,469 --> 02:16:44,080

doesn't mean 100 is also right too and

3512

02:16:48,309 --> 02:16:46,479

99 false sightings doesn't mean example

3513

02:16:50,150 --> 02:16:48,319

100 is false either that's a mistake

3514

02:16:51,429 --> 02:16:50,160

folks make same as would say well a

3515

02:16:53,270 --> 02:16:51,439

hundred people said they saw it so the

3516

02:16:55,270 --> 02:16:53,280

next person knew it must be real that's

3517

02:16:57,589 --> 02:16:55,280

the wrong thinking so we're saying the

3518

02:16:58,469 --> 02:16:57,599

last 99 were disproven so this one is

3519

02:17:00,070 --> 02:16:58,479

wrong

3520

02:17:02,629 --> 02:17:00,080

every individual signing every

3521

02:17:03,830 --> 02:17:02,639

individual case is on its own merits and

3522

02:17:05,589 --> 02:17:03,840

nothing else

3523

02:17:07,190 --> 02:17:05,599

and that also has been kept in mind

3524

02:17:09,190 --> 02:17:07,200

because they could all be completely

3525

02:17:11,349 --> 02:17:09,200

different phenomena one of them might be

3526

02:17:13,429 --> 02:17:11,359

alien ambassadors from cirrus a couple

3527

02:17:15,270 --> 02:17:13,439

light years away or you know years away

3528

02:17:16,790 --> 02:17:15,280

excuse me and the other could be from an

3529

02:17:18,309 --> 02:17:16,800

alternate dimension

3530

02:17:20,549 --> 02:17:18,319

you know if the universe is huge and

3531

02:17:21,830 --> 02:17:20,559

full of intelligent alien life it's not

3532

02:17:22,870 --> 02:17:21,840

like only one of them is going to come

3533

02:17:25,589 --> 02:17:22,880

visit us

3534

02:17:27,589 --> 02:17:25,599

it would be a it would say well they all

3535

02:17:30,469 --> 02:17:27,599

we'll space kansas no one cares about us

3536

02:17:33,110 --> 02:17:30,479

kansas gets billions of visitors a year

3537

02:17:35,589 --> 02:17:33,120

well right so it wouldn't be

3538

02:17:37,589 --> 02:17:35,599

uh an example of that i mean it would be

3539

02:17:38,790 --> 02:17:37,599

thousands of civilizations it wouldn't

3540

02:17:42,790 --> 02:17:38,800

be one

3541

02:17:45,750 --> 02:17:42,800

um and is that an example of

3542

02:17:47,990 --> 02:17:45,760

how many different types of craft and

3543

02:17:50,790 --> 02:17:48,000

sightings there have been right we

3544

02:17:53,110 --> 02:17:50,800

haven't seen a lot of repeated

3545

02:17:54,469 --> 02:17:53,120

right a lot yeah a lot of this except

3546

02:17:57,429 --> 02:17:54,479

for the tic tac

3547

02:17:58,950 --> 02:17:57,439

but um the uh

3548

02:18:02,790 --> 02:17:58,960

uh et

3549

02:18:05,830 --> 02:18:02,800

from zeta reticuli and et from andromeda

3550

02:18:07,830 --> 02:18:05,840

would not be driving the same ford focus

3551

02:18:09,830 --> 02:18:07,840

right well right let's consider an

3552

02:18:11,190 --> 02:18:09,840

option here um one of the reasons why

3553

02:18:13,110 --> 02:18:11,200

you would have visitors who hung around

3554

02:18:14,469 --> 02:18:13,120

would be if there was somebody else in

3555

02:18:15,750 --> 02:18:14,479

our local area whether it's

3556

02:18:17,990 --> 02:18:15,760

interdimensional or local whether you

3557

02:18:20,070 --> 02:18:18,000

know the galaxy whatever that's the the

3558

02:18:21,910 --> 02:18:20,080

big dog and says we don't want you

3559

02:18:24,309 --> 02:18:21,920

coming to that planet

3560

02:18:26,070 --> 02:18:24,319

now just because someone says like the

3561

02:18:27,750 --> 02:18:26,080

park service we don't want you going

3562

02:18:30,230 --> 02:18:27,760

that cave doesn't mean nobody ever gets

3563

02:18:32,070 --> 02:18:30,240

there but it means not very many do and

3564

02:18:33,030 --> 02:18:32,080

nobody's making pointless repeat trips

3565

02:18:35,270 --> 02:18:33,040

because

3566

02:18:37,429 --> 02:18:35,280

there might be some very bad results

3567

02:18:39,030 --> 02:18:37,439

from getting caught as a war and that

3568

02:18:40,790 --> 02:18:39,040

also means the folks doing it all likely

3569

02:18:42,150 --> 02:18:40,800

we do not shoestring budget et cetera et

3570

02:18:43,669 --> 02:18:42,160

cetera so they maybe don't have the best

3571

02:18:45,190 --> 02:18:43,679

spaceships when it comes to stealth

3572

02:18:46,629 --> 02:18:45,200

right those are examples of how

3573

02:18:47,589 --> 02:18:46,639

something like that could be realistic

3574

02:18:49,750 --> 02:18:47,599

the other thing is there's not a lot of

3575

02:18:51,110 --> 02:18:49,760

motivation for a repeat visit how many

3576

02:18:53,830 --> 02:18:51,120

times do you go the exact same

3577

02:18:54,709 --> 02:18:53,840

historical site right you know right so

3578

02:18:56,309 --> 02:18:54,719

it's kind of like well it's your what

3579

02:18:57,589 --> 02:18:56,319

yeah we all use the same call as it

3580

02:18:59,110 --> 02:18:57,599

turns out but the license plates all

3581

02:19:01,110 --> 02:18:59,120

look different if all i can see is the

3582

02:19:02,389 --> 02:19:01,120

license plates that are visiting my area

3583

02:19:03,509 --> 02:19:02,399

i'm not gonna see all that much repeat

3584

02:19:06,150 --> 02:19:03,519

traffic

3585

02:19:11,030 --> 02:19:06,160

and that would make a lot of sense and

3586

02:19:16,469 --> 02:19:12,309

anger

3587

02:19:18,870 --> 02:19:16,479

violent civilizations if you know

3588

02:19:22,230 --> 02:19:18,880

those must be out there in the universe

3589

02:19:24,549 --> 02:19:22,240

as well but we haven't seen

3590

02:19:25,830 --> 02:19:24,559

an alien invasion

3591

02:19:28,469 --> 02:19:25,840

um

3592

02:19:30,230 --> 02:19:28,479

why do you think that is if if a

3593

02:19:31,830 --> 02:19:30,240

civilization

3594

02:19:35,190 --> 02:19:31,840

is advanced

3595

02:19:36,950 --> 02:19:35,200

have they moved on from a warring

3596

02:19:38,549 --> 02:19:36,960

faction

3597

02:19:39,589 --> 02:19:38,559

that's kind of the sagan perspective

3598

02:19:40,870 --> 02:19:39,599

that that everybody gets a little bit

3599

02:19:42,230 --> 02:19:40,880

more peaceful but i've always felt that

3600

02:19:44,549 --> 02:19:42,240

was a little bit

3601

02:19:46,790 --> 02:19:44,559

a little bit too much hugs and kisses

3602

02:19:48,950 --> 02:19:46,800

humans are the nicest species on the

3603

02:19:51,270 --> 02:19:48,960

planet uh we really are of the nicest

3604

02:19:53,190 --> 02:19:51,280

ones out there we also are the species

3605

02:19:55,270 --> 02:19:53,200

that cause the top of like a billion

3606

02:19:57,190 --> 02:19:55,280

year deep pile of corpses to get to

3607

02:19:59,190 --> 02:19:57,200

where we're at now and we're not that

3608

02:20:00,710 --> 02:19:59,200

nice i really don't think any aliens are

3609

02:20:02,870 --> 02:20:00,720

gonna come across could be wimps they

3610

02:20:04,150 --> 02:20:02,880

might be very friendly and benevolent

3611

02:20:05,590 --> 02:20:04,160

but they're not going to be wimps and

3612

02:20:06,710 --> 02:20:05,600

they're probably not the nicest people

3613

02:20:08,710 --> 02:20:06,720

in the world if they don't like to fight

3614

02:20:10,790 --> 02:20:08,720

they probably are very good at it on the

3615

02:20:12,309 --> 02:20:10,800

flip side we often do these analysis of

3616

02:20:14,389 --> 02:20:12,319

what would an alien have to do or what

3617

02:20:16,309 --> 02:20:14,399

would an ai have to do and they almost

3618

02:20:18,070 --> 02:20:16,319

always set up them versus our scenario

3619

02:20:20,710 --> 02:20:18,080

where it's just them and us

3620

02:20:22,469 --> 02:20:20,720

keep in mind if the galaxy is full of

3621

02:20:24,230 --> 02:20:22,479

life so that one could invade us it

3622

02:20:25,990 --> 02:20:24,240

means there's a lot of them out there

3623

02:20:27,510 --> 02:20:26,000

and you never know if you're an alien if

3624

02:20:29,750 --> 02:20:27,520

you really were the first if you're the

3625

02:20:31,030 --> 02:20:29,760

biggest dog and one thing you do know is

3626
02:20:32,790 --> 02:20:31,040
there's a good chance of someone who's

3627
02:20:34,389 --> 02:20:32,800
older out there there's a good chance

3628
02:20:35,670 --> 02:20:34,399
that they are more powerful than you

3629
02:20:37,349 --> 02:20:35,680
everything you do in space is going to

3630
02:20:39,270 --> 02:20:37,359
be seen and recorded

3631
02:20:41,590 --> 02:20:39,280
and if they don't like what you're doing

3632
02:20:43,510 --> 02:20:41,600
that they presumably don't because they

3633
02:20:46,150 --> 02:20:43,520
didn't do it themselves they might do

3634
02:20:48,309 --> 02:20:46,160
something to you same as we have now

3635
02:20:50,230 --> 02:20:48,319
it's not because the situation is never

3636
02:20:52,150 --> 02:20:50,240
this empire versus this empire and

3637
02:20:53,990 --> 02:20:52,160
nobody else there's all those other

3638
02:20:55,590 --> 02:20:54,000

people on the side and there's all those

3639

02:20:57,349 --> 02:20:55,600

other people internally usually your

3640

02:20:59,110 --> 02:20:57,359

biggest enemy isn't your neighbor it's

3641

02:21:00,950 --> 02:20:59,120

the guys and the other factions of your

3642

02:21:01,990 --> 02:21:00,960

own government or locality

3643

02:21:03,429 --> 02:21:02,000

so that's the kind of thing they can

3644

02:21:05,270 --> 02:21:03,439

prevent that's one of the reasons why we

3645

02:21:06,870 --> 02:21:05,280

don't go around stopping all over people

3646

02:21:08,630 --> 02:21:06,880

traditionally they're typing out of too

3647

02:21:10,870 --> 02:21:08,640

much benevolence it's been out of

3648

02:21:13,110 --> 02:21:10,880

preoccupation with other matters often

3649

02:21:14,070 --> 02:21:13,120

internal rivals nearby neighbors and the

3650

02:21:16,070 --> 02:21:14,080

fear that everyone's going to jump on

3651

02:21:17,590 --> 02:21:16,080

you if you don't act nice that's

3652

02:21:19,349 --> 02:21:17,600

probably the same play in the galaxy if

3653

02:21:22,070 --> 02:21:19,359

that if there's anyone out there or

3654

02:21:24,550 --> 02:21:22,080

players well and uh you know stephen

3655

02:21:26,950 --> 02:21:24,560

hawking certainly

3656

02:21:29,590 --> 02:21:26,960

uh was against us you know

3657

02:21:31,510 --> 02:21:29,600

flashing a flashlight and and saying you

3658

02:21:33,590 --> 02:21:31,520

know we're here

3659

02:21:34,389 --> 02:21:33,600

you just don't want to do that you don't

3660

02:21:37,349 --> 02:21:34,399

know

3661

02:21:39,110 --> 02:21:37,359

who you are speaking to and revealing

3662

02:21:40,710 --> 02:21:39,120

yourself to

3663

02:21:42,309 --> 02:21:40,720

yeah i tend to agree with that more in

3664

02:21:43,590 --> 02:21:42,319

the context of they they're going to

3665

02:21:45,910 --> 02:21:43,600

know we're here

3666

02:21:48,309 --> 02:21:45,920

because plants have bio essentials you

3667

02:21:49,910 --> 02:21:48,319

know and your first radio waves out also

3668

02:21:51,830 --> 02:21:49,920

pretty loud they're like a million watts

3669

02:21:54,150 --> 02:21:51,840

we got weaker these days uh we don't

3670

02:21:56,389 --> 02:21:54,160

need to broadcast as strongly be heard

3671

02:21:57,590 --> 02:21:56,399

um and you could see plants you could

3672

02:21:59,429 --> 02:21:57,600

see them for billions of years in

3673

02:22:01,110 --> 02:21:59,439

advance you know there are telescopes

3674

02:22:03,349 --> 02:22:01,120

you build those bigger than planets of

3675

02:22:04,389 --> 02:22:03,359

your big civilization they can see

3676

02:22:05,990 --> 02:22:04,399

planets

3677

02:22:07,349 --> 02:22:06,000

but you don't necessarily want to be

3678

02:22:08,790 --> 02:22:07,359

shouting out there because well we know

3679

02:22:10,790 --> 02:22:08,800

the the local rule might be when

3680

02:22:12,550 --> 02:22:10,800

somebody says hey is anybody out there

3681

02:22:13,670 --> 02:22:12,560

please come by it's like a vampire

3682

02:22:15,429 --> 02:22:13,680

someone knocks like they don't let you

3683

02:22:16,790 --> 02:22:15,439

in you know

3684

02:22:19,270 --> 02:22:16,800

we don't necessarily want to be shouting

3685

02:22:20,389 --> 02:22:19,280

at our presence but to be honest i don't

3686

02:22:22,389 --> 02:22:20,399

think it's anything we have to worry

3687

02:22:25,030 --> 02:22:22,399

about too much because you would only

3688

02:22:26,389 --> 02:22:25,040

really apply if the activa shouting

3689

02:22:28,230 --> 02:22:26,399

specifically

3690

02:22:30,150 --> 02:22:28,240

opened the floodgate because it's not

3691

02:22:32,710 --> 02:22:30,160

gonna be the way they find out about us

3692

02:22:34,710 --> 02:22:32,720

they're already gonna know we're here

3693

02:22:35,510 --> 02:22:34,720

do you think that uh

3694

02:22:40,870 --> 02:22:35,520

the

3695

02:22:42,070 --> 02:22:40,880

of defense

3696

02:22:44,309 --> 02:22:42,080

suddenly

3697

02:22:48,070 --> 02:22:44,319

talking openly

3698

02:22:49,030 --> 02:22:48,080

about uh et and uaps

3699

02:22:53,750 --> 02:22:49,040

is

3700

02:22:55,830 --> 02:22:53,760

to get out in front of

3701

02:22:58,070 --> 02:22:55,840

something that is not in their control

3702

02:23:00,389 --> 02:22:58,080

and and that is you know we're being

3703

02:23:02,710 --> 02:23:00,399

contacted right now

3704

02:23:05,590 --> 02:23:02,720

do you think that that is is

3705

02:23:08,070 --> 02:23:05,600

is going on if it is it would be kind of

3706

02:23:09,750 --> 02:23:08,080

sloppy um i you know i

3707

02:23:11,590 --> 02:23:09,760

i'm ex military i have a lot of friends

3708

02:23:12,790 --> 02:23:11,600

who are in the army which i was in the

3709

02:23:14,790 --> 02:23:12,800

air force i mean i used to work at

3710

02:23:16,550 --> 02:23:14,800

wright patterson i i've done you know

3711

02:23:17,510 --> 02:23:16,560

lecturers the air force academy i'd

3712

02:23:18,790 --> 02:23:17,520

actually be a little bit possibly

3713

02:23:21,190 --> 02:23:18,800

offended if they had this sequin they

3714

02:23:22,550 --> 02:23:21,200
weren't telling me but that aside

3715

02:23:24,150 --> 02:23:22,560
um

3716

02:23:25,429 --> 02:23:24,160
i i don't really trust our ability to

3717

02:23:27,990 --> 02:23:25,439
keep secrets like this not as a

3718

02:23:29,590 --> 02:23:28,000
community you know i'm sure they're all

3719

02:23:30,630 --> 02:23:29,600
some very tightly kept good secrets but

3720

02:23:33,030 --> 02:23:30,640
they usually boring things like

3721

02:23:35,750 --> 02:23:33,040
individual data packets nothing that big

3722

02:23:37,110 --> 02:23:35,760
people talk soldiers talk um i mean you

3723

02:23:38,950 --> 02:23:37,120
could barely keep anyone's mouth shut

3724

02:23:40,230 --> 02:23:38,960
really got back from a mission you know

3725

02:23:42,230 --> 02:23:40,240
and so i just don't think they'd be able

3726

02:23:43,910 --> 02:23:42,240

to keep that secret very long on the

3727

02:23:45,190 --> 02:23:43,920

other hand if they had something they

3728

02:23:46,550 --> 02:23:45,200

thought was definitely gonna let it out

3729

02:23:48,710 --> 02:23:46,560

of the bag and they have been keeping

3730

02:23:50,389 --> 02:23:48,720

quiet yeah it makes sense to get ahead

3731

02:23:51,990 --> 02:23:50,399

of it for a while but

3732

02:23:53,590 --> 02:23:52,000

i don't think that they would because

3733

02:23:55,270 --> 02:23:53,600

again there's so many other governments

3734

02:23:56,630 --> 02:23:55,280

and they had their own spy agencies and

3735

02:23:58,070 --> 02:23:56,640

they have so much to benefit from

3736

02:24:00,870 --> 02:23:58,080

basically flicking us the finger and

3737

02:24:02,550 --> 02:24:00,880

exposing us i mean i can't imagine china

3738

02:24:04,950 --> 02:24:02,560

russia wouldn't know

3739

02:24:06,870 --> 02:24:04,960

if we had found out about alien life

3740

02:24:09,190 --> 02:24:06,880

and i can't imagine they wouldn't find

3741

02:24:11,190 --> 02:24:09,200

the best possible time to embarrass us

3742

02:24:13,349 --> 02:24:11,200

or trust the government by putting that

3743

02:24:15,030 --> 02:24:13,359

out there and so that from that cyclical

3744

02:24:16,550 --> 02:24:15,040

perspective i just don't think we'd be

3745

02:24:17,590 --> 02:24:16,560

doing it this way but

3746

02:24:19,429 --> 02:24:17,600

i mean

3747

02:24:21,030 --> 02:24:19,439

if they found out or they thought it was

3748

02:24:22,710 --> 02:24:21,040

very likely even if it was it could be

3749

02:24:24,710 --> 02:24:22,720

something like they thought

3750

02:24:26,070 --> 02:24:24,720

that the newest level of telescopes were

3751

02:24:28,309 --> 02:24:26,080

picking up data that would be definitely

3752

02:24:29,110 --> 02:24:28,319

showing biosensors i could see them say

3753

02:24:30,630 --> 02:24:29,120

well

3754

02:24:31,910 --> 02:24:30,640

you know we want to start softballing

3755

02:24:33,510 --> 02:24:31,920

these people in advance so it's less of

3756

02:24:35,670 --> 02:24:33,520

a shock

3757

02:24:37,190 --> 02:24:35,680

you know that's that's that's fairly

3758

02:24:38,710 --> 02:24:37,200

speculative at least

3759

02:24:42,950 --> 02:24:38,720

in uh

3760

02:24:44,230 --> 02:24:42,960

in an article uh last year um about a

3761

02:24:45,429 --> 02:24:44,240

year and a half ago in the new york

3762

02:24:49,190 --> 02:24:45,439

times

3763

02:24:50,790 --> 02:24:49,200

um about this subject uh leslie kane and

3764

02:24:54,070 --> 02:24:50,800

ralph blumenthal

3765

02:24:58,150 --> 02:24:54,080

uh buried in this article uh down at the

3766

02:25:02,389 --> 02:24:58,160

bottom was this quote attributed to dr

3767

02:25:04,150 --> 02:25:02,399

eric davis and he says

3768

02:25:05,270 --> 02:25:04,160

that he

3769

02:25:07,190 --> 02:25:05,280

briefed

3770

02:25:10,630 --> 02:25:07,200

the senate

3771

02:25:13,030 --> 02:25:10,640

and told them that we have

3772

02:25:14,389 --> 02:25:13,040

crashed craft

3773

02:25:16,309 --> 02:25:14,399

not made

3774

02:25:18,630 --> 02:25:16,319

on this earth

3775

02:25:19,990 --> 02:25:18,640

that we are in possession of them

3776

02:25:21,429 --> 02:25:20,000

now

3777

02:25:23,429 --> 02:25:21,439

that's like the biggest news in the

3778

02:25:24,550 --> 02:25:23,439

history of the world

3779

02:25:28,070 --> 02:25:24,560

right

3780

02:25:29,030 --> 02:25:28,080

and and with dr eric davis this this

3781

02:25:31,510 --> 02:25:29,040

quote

3782

02:25:33,110 --> 02:25:31,520

would had to have been vetted by the new

3783

02:25:34,389 --> 02:25:33,120

york times they're not going to put it

3784

02:25:38,469 --> 02:25:34,399

in print

3785

02:25:40,870 --> 02:25:38,479

um unless there was uh

3786

02:25:43,349 --> 02:25:40,880

uh you know some basis to it

3787

02:25:44,710 --> 02:25:43,359

what do you make of dr davis saying this

3788

02:25:46,469 --> 02:25:44,720

to the senate

3789

02:25:48,070 --> 02:25:46,479

i was going to say i don't always think

3790

02:25:51,429 --> 02:25:48,080

of the new york times is really all that

3791

02:25:53,030 --> 02:25:51,439

good about vetting their information

3792

02:25:55,910 --> 02:25:53,040

if he says he says in the senate i mean

3793

02:25:57,670 --> 02:25:55,920

there's if it was on record i'm probably

3794

02:25:59,349 --> 02:25:57,680

a crap for saying about the nyt but if

3795

02:26:01,429 --> 02:25:59,359

it was on record with the senate uh that

3796

02:26:03,190 --> 02:26:01,439

it should be uh uh you know something

3797

02:26:05,349 --> 02:26:03,200

you could foyer request for and find the

3798

02:26:07,270 --> 02:26:05,359

actual testimony of that there if it was

3799

02:26:09,429 --> 02:26:07,280

just some select subpanel that's under

3800

02:26:10,790 --> 02:26:09,439

secret go then i i guess not but i think

3801

02:26:11,990 --> 02:26:10,800

they'd put him in jail for breaking his

3802

02:26:13,510 --> 02:26:12,000

nda

3803

02:26:15,590 --> 02:26:13,520

but uh although that wouldn't really

3804

02:26:17,750 --> 02:26:15,600

achieve much um

3805

02:26:18,950 --> 02:26:17,760

but uh i mean if they checked that and

3806

02:26:20,630 --> 02:26:18,960

they ran it

3807

02:26:21,750 --> 02:26:20,640

yes but then they should have said that

3808

02:26:23,910 --> 02:26:21,760

they checked that and found that the

3809

02:26:25,510 --> 02:26:23,920

transcript they might just see that he

3810

02:26:27,510 --> 02:26:25,520

had at some point time testified the

3811

02:26:30,309 --> 02:26:27,520

senate and not know what he said i don't

3812

02:26:31,830 --> 02:26:30,319

know i can't speak to what the nyt's

3813

02:26:34,790 --> 02:26:31,840

vetting process is

3814

02:26:37,910 --> 02:26:34,800

yeah i spoke to ralph blumenthal uh on

3815

02:26:41,190 --> 02:26:37,920

this program uh about that quote

3816

02:26:43,190 --> 02:26:41,200

and he said uh

3817

02:26:45,190 --> 02:26:43,200

the editors at the new york times did

3818

02:26:48,389 --> 02:26:45,200

their due diligence

3819

02:26:50,230 --> 02:26:48,399

uh to confirm that quote and also

3820

02:26:52,389 --> 02:26:50,240

uh and to vet it and that they didn't

3821

02:26:54,230 --> 02:26:52,399

put it at the top of the article

3822

02:26:57,670 --> 02:26:54,240

because then the article would have had

3823

02:26:59,750 --> 02:26:57,680

to have been about that quote and that's

3824

02:27:01,910 --> 02:26:59,760

why they put it at at the bottom of the

3825

02:27:04,790 --> 02:27:01,920

article and that that that was from

3826

02:27:07,750 --> 02:27:04,800

ralph blumenthal directly uh on this

3827

02:27:09,750 --> 02:27:07,760

program now uh one last thing uh uh and

3828

02:27:11,990 --> 02:27:09,760

i want to thank you a great conversation

3829

02:27:14,790 --> 02:27:12,000

tonight but always glad to be on yeah

3830

02:27:17,429 --> 02:27:14,800

it's just amazing i i enjoy it every

3831

02:27:20,389 --> 02:27:17,439

single time is this we talked about uh

3832

02:27:22,790 --> 02:27:20,399

rendezvous with rama earlier and i think

3833

02:27:25,270 --> 02:27:22,800

also about the movie contact

3834

02:27:29,190 --> 02:27:25,280

is it possible

3835

02:27:32,309 --> 02:27:29,200

that we are observing something

3836

02:27:34,469 --> 02:27:32,319

uh that is approaching our solar system

3837

02:27:35,510 --> 02:27:34,479

and and won't be here for a couple of

3838

02:27:37,750 --> 02:27:35,520

years

3839

02:27:42,150 --> 02:27:37,760

but this is an opportunity to get the

3840

02:27:45,910 --> 02:27:43,990

it's always on the possible radar all

3841

02:27:47,270 --> 02:27:45,920

these things but i would just think that

3842

02:27:49,349 --> 02:27:47,280

we'd read a photograph from our own

3843

02:27:51,190 --> 02:27:49,359

observatories you know those are the

3844

02:27:52,630 --> 02:27:51,200

biggest best telescopes we have had

3845

02:27:54,070 --> 02:27:52,640

their data go directly through a lot of

3846

02:27:55,830 --> 02:27:54,080

open source things where it's easily

3847

02:27:58,309 --> 02:27:55,840

available to people who aren't

3848

02:28:00,070 --> 02:27:58,319

government officials or military if it

3849

02:28:00,870 --> 02:28:00,080

is it's a good approach but i'd still

3850

02:28:02,790 --> 02:28:00,880

say

3851
02:28:04,230 --> 02:28:02,800
i it just depends on the who i was

3852
02:28:05,750 --> 02:28:04,240
running the administration so they would

3853
02:28:07,429 --> 02:28:05,760
say well you do it suddenly others might

3854
02:28:09,670 --> 02:28:07,439
say the best honest thing to do is just

3855
02:28:10,950 --> 02:28:09,680
tell people on day one but i think you

3856
02:28:12,550 --> 02:28:10,960
have to tell other governments weren't

3857
02:28:13,910 --> 02:28:12,560
you if there was something coming you

3858
02:28:15,830 --> 02:28:13,920
you wanted the other governments to at

3859
02:28:17,349 --> 02:28:15,840
least the big ones because you're gonna

3860
02:28:19,910 --> 02:28:17,359
need they are their involvement in this

3861
02:28:21,910 --> 02:28:19,920
at some point and i mean that they might

3862
02:28:22,950 --> 02:28:21,920
be better keeping secrets than us but

3863
02:28:24,469 --> 02:28:22,960

you think at least one that would have

3864

02:28:26,309 --> 02:28:24,479

leaked all over the place

3865

02:28:28,550 --> 02:28:26,319

if if something was approaching our

3866

02:28:31,670 --> 02:28:28,560

solar system uh

3867

02:28:34,790 --> 02:28:31,680

you know at nearly the speed of light

3868

02:28:36,389 --> 02:28:34,800

and it was some large physical craft

3869

02:28:37,830 --> 02:28:36,399

how long

3870

02:28:39,670 --> 02:28:37,840

would it take

3871

02:28:40,469 --> 02:28:39,680

to slow down

3872

02:28:42,309 --> 02:28:40,479

right

3873

02:28:44,070 --> 02:28:42,319

it can't just well

3874

02:28:45,429 --> 02:28:44,080

it just can't cruise into our solar

3875

02:28:46,710 --> 02:28:45,439

system at the speed of light and then

3876

02:28:48,790 --> 02:28:46,720

pump the brakes

3877

02:28:50,150 --> 02:28:48,800

i was about to say if it's doing 1g it

3878

02:28:52,630 --> 02:28:50,160

takes about a year to slow down from

3879

02:28:54,070 --> 02:28:52,640

light speed at 1g which is what we would

3880

02:28:56,389 --> 02:28:54,080

want on board but if we're talking about

3881

02:28:57,910 --> 02:28:56,399

a spaceship that can do say 5000g like

3882

02:28:59,910 --> 02:28:57,920

we think the tic tac might have in the

3883

02:29:02,870 --> 02:28:59,920

more extreme models for that then cut

3884

02:29:04,870 --> 02:29:02,880

that time in down by one five thousandth

3885

02:29:07,270 --> 02:29:04,880

which would be um

3886

02:29:09,670 --> 02:29:07,280

oh jason sorry that would be about uh

3887

02:29:11,910 --> 02:29:09,680

about an hour two hours

3888

02:29:12,710 --> 02:29:11,920

it's about an hour or two

3889

02:29:15,510 --> 02:29:12,720

no

3890

02:29:16,870 --> 02:29:15,520

really if it's i mean again please don't

3891

02:29:18,790 --> 02:29:16,880

quote me on that exact number but it

3892

02:29:25,429 --> 02:29:18,800

should be about a year divided by five

3893

02:29:30,230 --> 02:29:28,230

so funny i got to watch isaac do math uh

3894

02:29:32,870 --> 02:29:30,240

in his head and that was pretty

3895

02:29:34,469 --> 02:29:32,880

interesting to have you pull that off i

3896

02:29:36,389 --> 02:29:34,479

wouldn't have done it isaac thank you so

3897

02:29:39,110 --> 02:29:36,399

much um uh

3898

02:29:41,110 --> 02:29:39,120

how you you're you're putting out a new

3899

02:29:43,190 --> 02:29:41,120

episode per week right

3900

02:29:45,750 --> 02:29:43,200

yeah yeah and an extra one sci-fi

3901
02:29:48,150 --> 02:29:45,760
sundays that we do once a month that uh

3902
02:29:49,990 --> 02:29:48,160
just tries to focus on the stuff that's

3903
02:29:51,910 --> 02:29:50,000
we see more in sci-fi what its physical

3904
02:29:54,230 --> 02:29:51,920
basis might be if the science permitted

3905
02:29:55,510 --> 02:29:54,240
it and and what what did you cover this

3906
02:29:57,270 --> 02:29:55,520
week

3907
02:29:59,590 --> 02:29:57,280
uh this well tomorrow we have an episode

3908
02:30:00,950 --> 02:29:59,600
coming out actually about about eight

3909
02:30:04,389 --> 02:30:00,960
hours that's gonna be on the future of

3910
02:30:05,990 --> 02:30:04,399
farming uh the week before that wow i i

3911
02:30:07,670 --> 02:30:06,000
can't believe i've gotten this already

3912
02:30:09,670 --> 02:30:07,680
we looked at the option of a future

3913
02:30:11,590 --> 02:30:09,680

without money and then we did oh

3914

02:30:12,710 --> 02:30:11,600

standing on a civilization of trillions

3915

02:30:14,230 --> 02:30:12,720

what would it be like if you actually

3916

02:30:16,230 --> 02:30:14,240

lived in one of these giant galactic

3917

02:30:18,870 --> 02:30:16,240

empires and you just didn't want to be

3918

02:30:20,870 --> 02:30:18,880

one little cog in the giant machine

3919

02:30:22,070 --> 02:30:20,880

you're the best isaac thank you so much

3920

02:30:24,469 --> 02:30:22,080

my friend

3921

02:30:26,070 --> 02:30:24,479

and uh i can't wait till uh we have our

3922

02:30:27,510 --> 02:30:26,080

next conversation thank you so much

3923

02:30:29,429 --> 02:30:27,520

anytime jimmy thank you so much for

3924

02:30:32,349 --> 02:30:29,439

having me on you're the best isaac

3925

02:30:34,230 --> 02:30:32,359

arthur and it's all simple it's

3926

02:30:35,830 --> 02:30:34,240

isaacarthur.net the links are over at

3927

02:30:38,150 --> 02:30:35,840

jimmychurchradio.com

3928

02:30:40,469 --> 02:30:38,160

science and futurism with isaac arthur

3929

02:30:43,510 --> 02:30:40,479

right there on youtube

3930

02:30:46,150 --> 02:30:43,520

and now you know officially where i get

3931

02:30:47,670 --> 02:30:46,160

my best stuff thank you so much arthur

3932

02:30:48,710 --> 02:30:47,680

enjoy the rest of your night my friend

3933

02:30:49,990 --> 02:30:48,720

thank you

3934

02:30:51,590 --> 02:30:50,000

you too

3935

02:30:53,110 --> 02:30:51,600

isaac arthur i'm your host jimmy church

3936

02:30:57,050 --> 02:30:53,120

this is fade to black i'll be right back

3937

02:31:17,429 --> 02:31:15,110

[Music]

3938

02:31:20,309 --> 02:31:17,439

hey what up y'all biblical fox here and

3939

02:31:24,630 --> 02:31:20,319

you are listening to my boy jimmy church

3940

02:31:35,590 --> 02:31:27,190

despite popular opinion

3941

02:31:40,150 --> 02:31:37,270

this is jimmy church of fade to black

3942

02:31:43,270 --> 02:31:40,160

and i take life change t supplements

3943

02:31:44,710 --> 02:31:43,280

every single day it's what i do

3944

02:31:48,630 --> 02:31:44,720

click on their banner at

3945

02:31:53,429 --> 02:31:50,790

when you take the beans from central

3946

02:31:55,830 --> 02:31:53,439

america with dashes of indonesian and

3947

02:31:59,030 --> 02:31:55,840

african mixed in and then roasted to the

3948

02:32:02,389 --> 02:31:59,040

dark side of fade to black you create

3949

02:32:05,190 --> 02:32:02,399

the ultimate brew of fringe introducing

3950

02:32:08,309 --> 02:32:05,200

the fade to black blend from river moon

3951

02:32:10,790 --> 02:32:08,319

coffee yes river moon's darkest

3952

02:32:13,349 --> 02:32:10,800

customized roast was created for the

3953

02:32:15,990 --> 02:32:13,359

love of fade to black

3954

02:32:18,550 --> 02:32:16,000

the alchemy of masterful roasting and

3955

02:32:22,150 --> 02:32:18,560

smoking the beans is in every sip of

3956

02:32:25,110 --> 02:32:22,160

this full-bodied dark java i need my

3957

02:32:27,349 --> 02:32:25,120

coffee doc deep with distinct

3958

02:32:30,150 --> 02:32:27,359

bittersweet chocolate highlights just

3959

02:32:32,710 --> 02:32:30,160

like the bunker leaning further into the

3960

02:32:35,830 --> 02:32:32,720

darkness of the roast is fade to black

3961

02:32:37,990 --> 02:32:35,840

blend from river moon coffee just click

3962

02:32:41,670 --> 02:32:38,000

on the banner at jimmychurchradio.com

3963

02:32:45,670 --> 02:32:41,680

and use the promo code f2b blend for 15

3964

02:32:50,870 --> 02:32:47,590

this is billy carson with forbidden

3965

02:32:52,790 --> 02:32:50,880

knowledge dot tv forbidden knowledge tv

3966

02:32:55,990 --> 02:32:52,800

has just reached its one year

3967

02:32:58,230 --> 02:32:56,000

anniversary that's right one year and as

3968

02:33:01,110 --> 02:32:58,240

a show of appreciation we are giving all

3969

02:33:04,150 --> 02:33:01,120

new subscribers a free 30-day trial of

3970

02:33:07,270 --> 02:33:04,160

forbidden knowledge dot tv that's 30

3971

02:33:09,830 --> 02:33:07,280

days to binge watch thousands of movies

3972

02:33:12,790 --> 02:33:09,840

documentaries conferences workshops

3973

02:33:15,429 --> 02:33:12,800

lectures yoga classes meditation courses

3974

02:33:17,750 --> 02:33:15,439

and so much more so log on to forbidden

3975

02:33:19,910 --> 02:33:17,760

knowledge dot tv from your computer or

3976

02:33:24,550 --> 02:33:19,920

mobile device or get the forbidden

3977

02:33:27,590 --> 02:33:24,560

knowledge tv app on apple tv roku amazon

3978

02:33:31,190 --> 02:33:27,600

itunes or google play today and use

3979

02:33:33,670 --> 02:33:31,200

coupon code 30 days free that's coupon

3980

02:33:36,930 --> 02:33:33,680

code 30 days free on forbidden knowledge

3981

02:33:39,990 --> 02:33:36,940

dot tv today

3982

02:33:42,150 --> 02:33:40,000

[Music]

3983

02:33:45,030 --> 02:33:42,160

are you intrigued by paranormal talk

3984

02:33:47,750 --> 02:33:45,040

radio you love the new paranormal radio

3985

02:33:49,429 --> 02:33:47,760

app from talk stream live

3986

02:33:52,309 --> 02:33:49,439

you'll find a great selection of talk

3987

02:33:54,950 --> 02:33:52,319

shows covering ufos ghosts strange

3988

02:33:57,190 --> 02:33:54,960

phenomena and much more download the

3989

02:33:59,270 --> 02:33:57,200

paranormal radio app now and start

3990

02:34:01,510 --> 02:33:59,280

listening to the very best in paranormal

3991

02:34:03,270 --> 02:34:01,520

talk entertainment including the network

3992

02:34:06,469 --> 02:34:03,280

you're listening to right now the

3993

02:34:17,110 --> 02:34:06,479

paranormal radio app free in google play

3994

02:34:23,910 --> 02:34:20,230

it's not a lifestyle we chose we were

3995

02:34:27,730 --> 02:34:23,920

born this way this is kjcr

3996

02:34:46,070 --> 02:34:37,970

[Music]

3997

02:34:48,850 --> 02:34:47,990

welcome back faded black i am your host

3998

02:34:52,469 --> 02:34:48,860

jimmy church

3999

02:34:54,469 --> 02:34:52,479

[Music]

4000

02:34:56,710 --> 02:34:54,479

i want to thank isaac arthur for coming

4001
02:34:58,630 --> 02:34:56,720
in tonight and you know the physics of a

4002
02:34:59,429 --> 02:34:58,640
tic tac one of the most

4003
02:35:01,830 --> 02:34:59,439
uh

4004
02:35:05,990 --> 02:35:01,840
yeah it's like this polarizing subject

4005
02:35:08,309 --> 02:35:06,000
and and i get it i i understand why

4006
02:35:11,510 --> 02:35:08,319
uh so many reasons anyway

4007
02:35:18,150 --> 02:35:11,520
i've opened up the phone lines

4008
02:35:22,230 --> 02:35:20,230
so much to unpack in in that

4009
02:35:23,590 --> 02:35:22,240
conversation and

4010
02:35:25,429 --> 02:35:23,600
um

4011
02:35:27,750 --> 02:35:25,439
this is uh

4012
02:35:30,469 --> 02:35:27,760
this is what i enjoy about isaac

4013
02:35:32,150 --> 02:35:30,479

he has and once you go to science and

4014

02:35:34,070 --> 02:35:32,160

futurism uh

4015

02:35:35,110 --> 02:35:34,080

with isaac arthur go to his youtube

4016

02:35:38,389 --> 02:35:35,120

channel

4017

02:35:41,190 --> 02:35:38,399

and and start poking through and if

4018

02:35:43,429 --> 02:35:41,200

it's years of stuff that is there

4019

02:35:47,830 --> 02:35:43,439

but uh go and check it out

4020

02:35:50,230 --> 02:35:47,840

he presents some of the most compelling

4021

02:35:53,030 --> 02:35:50,240

theories and ideas

4022

02:35:55,030 --> 02:35:53,040

about extraterrestrial civilizations

4023

02:35:55,910 --> 02:35:55,040

their technology how they would get it

4024

02:35:56,870 --> 02:35:55,920

done

4025

02:35:59,830 --> 02:35:56,880

in

4026
02:36:03,030 --> 02:35:59,840
so many it is so wide

4027
02:36:05,110 --> 02:36:03,040
and he lays it all out there

4028
02:36:08,150 --> 02:36:05,120
from the

4029
02:36:09,750 --> 02:36:08,160
the mindset of him

4030
02:36:11,990 --> 02:36:09,760
being a skeptic

4031
02:36:14,870 --> 02:36:12,000
and not a skeptic

4032
02:36:16,389 --> 02:36:14,880
hardcore because he's got an open mind

4033
02:36:20,070 --> 02:36:16,399
and you

4034
02:36:22,389 --> 02:36:20,080
you cannot uh present like he has done

4035
02:36:24,230 --> 02:36:22,399
over the years some of the greatest

4036
02:36:26,950 --> 02:36:24,240
research into

4037
02:36:29,910 --> 02:36:26,960
et and and their technology

4038
02:36:32,550 --> 02:36:29,920

um he's got the openness the op most

4039

02:36:33,429 --> 02:36:32,560

opened of open minds out there

4040

02:36:37,110 --> 02:36:33,439

and

4041

02:36:37,990 --> 02:36:37,120

tonight on the show

4042

02:36:40,790 --> 02:36:38,000

when

4043

02:36:43,990 --> 02:36:40,800

uh we're discussing the physics of the

4044

02:36:46,790 --> 02:36:44,000

tic tac and i can present every single

4045

02:36:51,190 --> 02:36:46,800

angle to him and he's going to break it

4046

02:36:53,270 --> 02:36:51,200

down and and and i totally appreciate

4047

02:36:54,070 --> 02:36:53,280

uh the way that he has approached all of

4048

02:36:55,349 --> 02:36:54,080

this

4049

02:36:58,389 --> 02:36:55,359

and then

4050

02:37:00,469 --> 02:36:58,399

once you go through the physics of the

4051

02:37:04,150 --> 02:37:00,479

tic tac part of it

4052

02:37:06,230 --> 02:37:04,160

um from a scientific mind like isaac

4053

02:37:07,349 --> 02:37:06,240

what are we left with

4054

02:37:08,469 --> 02:37:07,359

well

4055

02:37:13,270 --> 02:37:08,479

it's

4056

02:37:15,270 --> 02:37:13,280

mean that's the other

4057

02:37:18,630 --> 02:37:15,280

option that is on the table

4058

02:37:22,389 --> 02:37:18,640

and for him to then present

4059

02:37:24,710 --> 02:37:22,399

all of the angles of why it could be e t

4060

02:37:26,550 --> 02:37:24,720

and e t is here

4061

02:37:28,550 --> 02:37:26,560

that's one of the best things that we

4062

02:37:30,150 --> 02:37:28,560

could have on this show

4063

02:37:32,550 --> 02:37:30,160

he's laid it out

4064

02:37:35,349 --> 02:37:32,560

and although he doesn't necessarily

4065

02:37:36,469 --> 02:37:35,359

believe that it's e.t what else could it

4066

02:37:37,190 --> 02:37:36,479

be

4067

02:37:38,469 --> 02:37:37,200

the

4068

02:37:41,750 --> 02:37:38,479

um

4069

02:37:44,389 --> 02:37:41,760

the points that he made tonight

4070

02:37:46,389 --> 02:37:44,399

could it be russian could it be chinese

4071

02:37:47,510 --> 02:37:46,399

and them having this technology

4072

02:37:50,230 --> 02:37:47,520

out in front of

4073

02:37:51,429 --> 02:37:50,240

one of the points that he made

4074

02:37:53,990 --> 02:37:51,439

which

4075

02:37:56,870 --> 02:37:54,000

wasn't discussed by the uap task force

4076

02:37:58,790 --> 02:37:56,880

that hasn't been mentioned by anybody on

4077

02:38:02,070 --> 02:37:58,800

the internet or any of the other

4078

02:38:04,790 --> 02:38:02,080

supporters of of of of this and the tic

4079

02:38:06,870 --> 02:38:04,800

tac he said this if you are in

4080

02:38:08,150 --> 02:38:06,880

possession if you're russia

4081

02:38:12,070 --> 02:38:08,160

and you're in possession of this

4082

02:38:13,990 --> 02:38:12,080

technology that's a waste

4083

02:38:15,349 --> 02:38:14,000

what you would be doing with that

4084

02:38:18,870 --> 02:38:15,359

technology

4085

02:38:22,710 --> 02:38:18,880

is is uh free energy inside of your

4086

02:38:25,750 --> 02:38:22,720

country to to have factories to produce

4087

02:38:29,910 --> 02:38:25,760

food to have energy and to make you the

4088

02:38:31,110 --> 02:38:29,920

most powerful country on earth

4089

02:38:33,110 --> 02:38:31,120

that's what you would do with the

4090

02:38:35,670 --> 02:38:33,120

technology and we would know it you

4091

02:38:37,670 --> 02:38:35,680

wouldn't be able to hide it

4092

02:38:39,910 --> 02:38:37,680

well that would apply to china right

4093

02:38:43,270 --> 02:38:39,920

well that would also apply

4094

02:38:46,150 --> 02:38:43,280

to the united states

4095

02:38:47,670 --> 02:38:46,160

which again swings all of this in the

4096

02:38:50,230 --> 02:38:47,680

other direction

4097

02:38:53,910 --> 02:38:50,240

it's probably not from here

4098

02:38:55,750 --> 02:38:53,920

if we take everything in its totality

4099

02:38:56,870 --> 02:38:55,760

that's eyewitness testimony that's the

4100

02:39:00,469 --> 02:38:56,880

radar

4101
02:39:02,230 --> 02:39:00,479
and and that is the physics of what is

4102
02:39:03,110 --> 02:39:02,240
involved here

4103
02:39:07,190 --> 02:39:03,120
um

4104
02:39:09,349 --> 02:39:07,200
uh us having anti-gravity technology

4105
02:39:11,190 --> 02:39:09,359
uh inside of the united states that is

4106
02:39:13,590 --> 02:39:11,200
backwards engineered all of it's a

4107
02:39:15,670 --> 02:39:13,600
possibility and he agrees with that

4108
02:39:18,309 --> 02:39:15,680
but we would certainly see evidence

4109
02:39:20,710 --> 02:39:18,319
outside of the military with this

4110
02:39:24,150 --> 02:39:20,720
technology and that's it because that

4111
02:39:26,230 --> 02:39:24,160
would indeed absolutely make us the most

4112
02:39:27,270 --> 02:39:26,240
powerful country in the world

4113
02:39:29,190 --> 02:39:27,280

that's it

4114

02:39:31,110 --> 02:39:29,200

that is it

4115

02:39:33,190 --> 02:39:31,120

it's pretty interesting isn't it

4116

02:39:35,670 --> 02:39:33,200

you gotta look at it from those terms

4117

02:39:40,190 --> 02:39:35,680

that's why we have isaac arthur on this

4118

02:39:43,750 --> 02:39:42,550

747-228-2051 let's go to the phones hi

4119

02:39:46,870 --> 02:39:43,760

you're live on fade to black who's

4120

02:39:55,349 --> 02:39:50,389

you're live

4121

02:39:56,790 --> 02:39:55,359

gonna do this

4122

02:39:58,230 --> 02:39:56,800

three

4123

02:40:02,790 --> 02:39:58,240

two

4124

02:40:08,150 --> 02:40:05,590

i can hear you

4125

02:40:13,670 --> 02:40:08,160

all right i'm going to put you on hold

4126

02:40:17,269 --> 02:40:14,470

oh

4127

02:40:20,070 --> 02:40:17,279

[Laughter]

4128

02:40:27,030 --> 02:40:20,080

best show ever exclamation point thank

4129

02:40:31,269 --> 02:40:29,830

okay let's go back to the phones

4130

02:40:35,910 --> 02:40:31,279

hi you're live on fade to black who's

4131

02:40:39,110 --> 02:40:37,349

you're live

4132

02:40:41,590 --> 02:40:39,120

oh man don't tell me i got problems with

4133

02:40:43,990 --> 02:40:41,600

the phones

4134

02:40:48,230 --> 02:40:44,000

oh man okay

4135

02:40:51,910 --> 02:40:48,240

oh please please don't tell me i've got

4136

02:40:55,349 --> 02:40:53,910

okay

4137

02:40:56,950 --> 02:40:55,359

and

4138

02:40:59,670 --> 02:40:56,960

i'll just sign off for the show right

4139

02:41:03,670 --> 02:41:01,349

i'm not going to do this

4140

02:41:06,309 --> 02:41:03,680

uh for the next 20 minutes live on the

4141

02:41:09,190 --> 02:41:06,319

air i'll just wind this thing down right

4142

02:41:11,269 --> 02:41:09,200

now we've got fader night tomorrow night

4143

02:41:12,550 --> 02:41:11,279

and uh we can just go to open lines

4144

02:41:16,469 --> 02:41:12,560

tomorrow night

4145

02:41:18,389 --> 02:41:16,479

um i'm gonna do one more crack at this

4146

02:41:21,269 --> 02:41:18,399

seven four seven two two eight two zero

4147

02:41:23,269 --> 02:41:21,279

five one one more crack and let's see

4148

02:41:24,550 --> 02:41:23,279

but if i've got issues

4149

02:41:26,790 --> 02:41:24,560

with uh

4150

02:41:29,830 --> 02:41:26,800

now i don't see anything going wrong

4151

02:41:31,990 --> 02:41:29,840

um okay so uh unfocus out out of the

4152

02:41:34,389 --> 02:41:32,000

phones it doesn't matter we'll we'll

4153

02:41:35,510 --> 02:41:34,399

check it out in a second but going back

4154

02:41:36,389 --> 02:41:35,520

to

4155

02:41:39,429 --> 02:41:36,399

uh

4156

02:41:43,429 --> 02:41:39,439

some of the points here um

4157

02:41:47,910 --> 02:41:45,110

not only

4158

02:41:48,790 --> 02:41:47,920

is there a lot of life out there

4159

02:41:49,630 --> 02:41:48,800

but

4160

02:41:53,110 --> 02:41:49,640

the

4161

02:41:56,630 --> 02:41:53,120

non-repetitive nature sort of

4162

02:41:59,030 --> 02:41:56,640

of what has been seen here

4163

02:41:59,910 --> 02:41:59,040

on on this planet

4164

02:42:00,790 --> 02:41:59,920

uh

4165

02:42:02,510 --> 02:42:00,800

of

4166

02:42:04,150 --> 02:42:02,520

you know sightings and things

4167

02:42:07,510 --> 02:42:04,160

non-repetitive

4168

02:42:10,630 --> 02:42:07,520

it's not like we are seeing the exact

4169

02:42:13,510 --> 02:42:10,640

same thing over and over again now

4170

02:42:16,469 --> 02:42:13,520

contact with intelligent life

4171

02:42:19,190 --> 02:42:16,479

right uh the grays and the nordics and

4172

02:42:21,750 --> 02:42:19,200

reptilians and mantids and things yeah

4173

02:42:23,190 --> 02:42:21,760

that tends to repeat right okay i i get

4174

02:42:25,349 --> 02:42:23,200

that but i'm talking about the types of

4175

02:42:30,309 --> 02:42:25,359

vehicles and how it's seen

4176

02:42:31,910 --> 02:42:30,319

that right back to uh isaac's point

4177

02:42:33,990 --> 02:42:31,920

there's got to be a lot of life out

4178

02:42:36,469 --> 02:42:34,000

there and if there is

4179

02:42:38,950 --> 02:42:36,479

it's not just one civilization visiting

4180

02:42:42,309 --> 02:42:38,960

this planet it's thousands

4181

02:42:43,990 --> 02:42:42,319

and would they do a repeat visit here

4182

02:42:45,349 --> 02:42:44,000

that's such a great point that isaac

4183

02:42:47,429 --> 02:42:45,359

brought up and i've said it the same

4184

02:42:50,150 --> 02:42:47,439

thing would you

4185

02:42:51,990 --> 02:42:50,160

come by and check it out and move on and

4186

02:42:55,269 --> 02:42:52,000

get to the next planet get to the next

4187

02:42:58,710 --> 02:42:55,279

star system and and check it out well

4188

02:43:04,150 --> 02:42:58,720

you would be doing that forever

4189

02:43:07,110 --> 02:43:04,160

and that's what we would be doing

4190

02:43:09,510 --> 02:43:07,120

if we had the ability to go from planet

4191

02:43:12,070 --> 02:43:09,520

to planet to planet are we going to stop

4192

02:43:13,830 --> 02:43:12,080

at one planet and stay there for

4193

02:43:16,870 --> 02:43:13,840

for a hundred years

4194

02:43:19,110 --> 02:43:16,880

you know and and well it's possible but

4195

02:43:22,150 --> 02:43:19,120

we would also map it

4196

02:43:25,190 --> 02:43:22,160

lock it down record it and then move on

4197

02:43:27,110 --> 02:43:25,200

uh to the next planet and and check it

4198

02:43:29,750 --> 02:43:27,120

out uh for signs of life and what's

4199

02:43:31,830 --> 02:43:29,760

going on and and rinse and repeat and do

4200

02:43:33,590 --> 02:43:31,840

that over and over again that's what we

4201

02:43:36,070 --> 02:43:33,600

would do and i would think that e.t

4202

02:43:37,269 --> 02:43:36,080

would be doing the exact same thing

4203

02:43:40,070 --> 02:43:37,279

let's go back to the phones hi you're

4204

02:43:42,070 --> 02:43:40,080

live on fade to black who's calling

4205

02:43:45,510 --> 02:43:42,080

hey jamie it's uh chuckles from

4206

02:43:48,070 --> 02:43:45,520

pennsylvania man hey how are you chuck

4207

02:43:49,830 --> 02:43:48,080

i'm good um i i'm surprised i got

4208

02:43:50,870 --> 02:43:49,840

through so quickly but i just hadn't

4209

02:43:54,790 --> 02:43:50,880

thought

4210

02:43:58,150 --> 02:43:54,800

always had so anyway

4211

02:44:00,790 --> 02:43:58,160

um really always appreciate um isaac

4212

02:44:02,870 --> 02:44:00,800

being on the show and right towards the

4213

02:44:07,429 --> 02:44:02,880

end you were mentioning

4214

02:44:08,870 --> 02:44:07,439

how hopefully they've grid or or grown

4215

02:44:09,990 --> 02:44:08,880

past

4216

02:44:12,630 --> 02:44:10,000

being

4217

02:44:14,389 --> 02:44:12,640

i don't know violent or mean

4218

02:44:15,990 --> 02:44:14,399

and that's kind of how i've always

4219

02:44:18,230 --> 02:44:16,000

thought but

4220

02:44:20,550 --> 02:44:18,240

you brought up a point that kind of

4221

02:44:21,990 --> 02:44:20,560

maybe answers that question

4222

02:44:23,190 --> 02:44:22,000

that i'll bounce off of you in the

4223

02:44:25,910 --> 02:44:23,200

faders

4224

02:44:27,429 --> 02:44:25,920

we have so many sightings of so many

4225

02:44:31,030 --> 02:44:27,439

different crafts

4226

02:44:33,590 --> 02:44:31,040

i think you're in my ballpark where

4227

02:44:35,030 --> 02:44:33,600

these classes are coming from all kinds

4228

02:44:37,750 --> 02:44:35,040

of different

4229

02:44:40,309 --> 02:44:37,760

places are we both maybe kind of on the

4230

02:44:41,429 --> 02:44:40,319

same page there yes

4231

02:44:42,469 --> 02:44:41,439

a hundred percent

4232

02:44:48,389 --> 02:44:42,479

so

4233

02:44:49,870 --> 02:44:48,399

craft coming from all over the place

4234

02:44:52,790 --> 02:44:49,880

and they're not even shooting at

4235

02:44:55,510 --> 02:44:52,800

themselves in the sky

4236

02:44:57,030 --> 02:44:55,520

let alone us

4237

02:44:58,630 --> 02:44:57,040

um

4238

02:45:01,110 --> 02:44:58,640

i think we're okay

4239

02:45:02,630 --> 02:45:01,120

if we had a whole bunch of animals

4240

02:45:05,110 --> 02:45:02,640

together

4241

02:45:07,510 --> 02:45:05,120

here on earth unfortunately

4242

02:45:10,550 --> 02:45:07,520

the most dominant animal would start to

4243

02:45:13,990 --> 02:45:10,560

fight and then rule that's just what we

4244

02:45:16,469 --> 02:45:14,000

witnessed here well we're witnessing all

4245

02:45:18,469 --> 02:45:16,479

kinds of different kinds of crafts

4246

02:45:21,590 --> 02:45:18,479

coming and going we don't even talk

4247

02:45:23,429 --> 02:45:21,600

about that because we've all

4248

02:45:25,750 --> 02:45:23,439

well we're all here listening to you

4249

02:45:27,349 --> 02:45:25,760

talking because we don't believe well

4250

02:45:30,950 --> 02:45:27,359

we're not seeing them shoot at one

4251

02:45:33,429 --> 02:45:30,960

another and they're not shooting at us

4252

02:45:35,510 --> 02:45:33,439

i just have just i just kind of had that

4253

02:45:37,990 --> 02:45:35,520

feeling just kind of wanted to bounce it

4254

02:45:40,630 --> 02:45:38,000

off you and the faders all uh hang up

4255

02:45:42,790 --> 02:45:40,640

and let you all chat about it yeah and

4256

02:45:45,110 --> 02:45:42,800

and thank you for that chuck um that's

4257

02:45:46,710 --> 02:45:45,120

actually a really really really really

4258

02:45:47,670 --> 02:45:46,720

good point

4259

02:45:49,910 --> 02:45:47,680

um

4260

02:45:51,030 --> 02:45:49,920

i have seen things in the sky

4261

02:45:53,750 --> 02:45:51,040

i have

4262

02:45:56,710 --> 02:45:53,760

have i seen anything with laser cannons

4263

02:46:00,630 --> 02:45:56,720

and and shooting at each other

4264

02:46:03,429 --> 02:46:00,640

or shooting uh you know at us i haven't

4265

02:46:05,670 --> 02:46:03,439

seen anything like that i've seen a

4266

02:46:08,230 --> 02:46:05,680

couple of crazy videos over the years

4267

02:46:09,190 --> 02:46:08,240

that that show something fighting up

4268

02:46:11,510 --> 02:46:09,200

there

4269

02:46:13,990 --> 02:46:11,520

at at high altitudes it looks like some

4270

02:46:16,230 --> 02:46:14,000

dog fighting uh occurring that could be

4271

02:46:18,389 --> 02:46:16,240

us that could be our own satellites it

4272

02:46:20,150 --> 02:46:18,399

could be russia against china it could

4273

02:46:21,910 --> 02:46:20,160

be russia against the united states and

4274

02:46:26,070 --> 02:46:21,920

we're up there shooting at each other

4275

02:46:27,670 --> 02:46:26,080

that's a total possibility um but uh

4276

02:46:30,070 --> 02:46:27,680

that being said i don't think there's

4277

02:46:31,429 --> 02:46:30,080

been any clear evidence

4278

02:46:39,429 --> 02:46:31,439

of

4279

02:46:41,269 --> 02:46:39,439

back to the phone calls isaac said one

4280

02:46:43,190 --> 02:46:41,279

thing a few years ago on the show we

4281

02:46:45,670 --> 02:46:43,200

didn't talk about it tonight but

4282

02:46:48,150 --> 02:46:45,680

but he said something very very

4283

02:46:52,550 --> 02:46:48,160

interesting

4284

02:46:55,830 --> 02:46:52,560

if they wanted to have this planet

4285

02:46:57,190 --> 02:46:55,840

they wouldn't have a shootout

4286

02:46:58,790 --> 02:46:57,200

they could do

4287

02:47:00,630 --> 02:46:58,800

anything that they wanted that would

4288

02:47:02,790 --> 02:47:00,640

make things pretty simple

4289

02:47:05,349 --> 02:47:02,800

right a virus

4290

02:47:08,630 --> 02:47:05,359

just wipe us out in in in seconds the

4291

02:47:11,670 --> 02:47:08,640

entire planet before they got here we

4292

02:47:13,830 --> 02:47:11,680

wouldn't even see them here

4293

02:47:15,510 --> 02:47:13,840

right uh there's that and then he said

4294

02:47:17,030 --> 02:47:15,520

something else very interesting he said

4295

02:47:18,469 --> 02:47:17,040

you know why why would you just come

4296

02:47:21,510 --> 02:47:18,479

here and risk

4297

02:47:23,030 --> 02:47:21,520

the lives of of your own crew members in

4298

02:47:25,590 --> 02:47:23,040

in a war

4299

02:47:27,830 --> 02:47:25,600

uh with with planet earth

4300

02:47:30,230 --> 02:47:27,840

what you could do

4301
02:47:32,550 --> 02:47:30,240
is cruise in to

4302
02:47:33,590 --> 02:47:32,560
uh our solar system at the speed of

4303
02:47:36,550 --> 02:47:33,600
light

4304
02:47:37,349 --> 02:47:36,560
point the ship at earth and and

4305
02:47:39,349 --> 02:47:37,359
uh

4306
02:47:41,830 --> 02:47:39,359
hit the brakes and release all of your

4307
02:47:43,429 --> 02:47:41,840
garbage

4308
02:47:45,510 --> 02:47:43,439
and kinetically

4309
02:47:48,550 --> 02:47:45,520
their garbage

4310
02:47:51,349 --> 02:47:48,560
hits earth at the speed of light that's

4311
02:47:54,950 --> 02:47:51,359
it i mean it doesn't have to be

4312
02:47:57,110 --> 02:47:54,960
a plasma cannon war a laser cannon war

4313
02:47:58,469 --> 02:47:57,120

it doesn't have to be that

4314

02:48:01,510 --> 02:47:58,479

uh there are

4315

02:48:03,910 --> 02:48:01,520

much easier more efficient ways to get

4316

02:48:07,190 --> 02:48:03,920

rid of us and we're still here

4317

02:48:10,550 --> 02:48:07,200

so i think it's pretty safe to say that

4318

02:48:11,670 --> 02:48:10,560

who has visited us so far

4319

02:48:13,269 --> 02:48:11,680

hasn't

4320

02:48:14,230 --> 02:48:13,279

has been evil

4321

02:48:17,510 --> 02:48:14,240

right

4322

02:48:20,389 --> 02:48:17,520

i i don't feel it i don't see it

4323

02:48:23,510 --> 02:48:20,399

um and and and that's it and

4324

02:48:25,349 --> 02:48:23,520

and uh one of the things that we do here

4325

02:48:27,269 --> 02:48:25,359

is we shoot first and ask questions

4326

02:48:29,269 --> 02:48:27,279

later that's what we do it doesn't

4327

02:48:32,389 --> 02:48:29,279

matter it goes back to stone age man

4328

02:48:35,349 --> 02:48:32,399

we've always been that way

4329

02:48:38,309 --> 02:48:35,359

we're not shooting at these craft

4330

02:48:39,349 --> 02:48:38,319

right we're we're simply not doing that

4331

02:48:41,510 --> 02:48:39,359

um

4332

02:48:42,550 --> 02:48:41,520

to say that

4333

02:48:45,429 --> 02:48:42,560

we're not

4334

02:48:46,950 --> 02:48:45,439

shooting missiles you know uh uh dave

4335

02:48:49,670 --> 02:48:46,960

fravor didn't have

4336

02:48:52,550 --> 02:48:49,680

armed missiles on his f-18

4337

02:48:55,670 --> 02:48:52,560

yeah but they've got uh

4338

02:48:57,429 --> 02:48:55,680

uh all kinds of gatlin guns and missiles

4339

02:49:00,070 --> 02:48:57,439

on the nimitz

4340

02:49:02,870 --> 02:49:00,080

and all of those guided missile cruisers

4341

02:49:06,389 --> 02:49:02,880

and those aegis uh cruisers

4342

02:49:08,550 --> 02:49:06,399

that are armed to the teeth

4343

02:49:09,990 --> 02:49:08,560

did you hear that

4344

02:49:13,349 --> 02:49:10,000

wow

4345

02:49:16,150 --> 02:49:13,359

i heard that i haven't know why that was

4346

02:49:17,590 --> 02:49:16,160

that was crazy anyway we haven't fired

4347

02:49:18,550 --> 02:49:17,600

anything

4348

02:49:19,830 --> 02:49:18,560

um

4349

02:49:21,110 --> 02:49:19,840

think about that let's go back to the

4350

02:49:23,590 --> 02:49:21,120

phones how you're live on fade to black

4351
02:49:25,110 --> 02:49:23,600
who's calling

4352
02:49:27,990 --> 02:49:25,120
what's up jim

4353
02:49:28,870 --> 02:49:28,000
what's up who's this

4354
02:49:31,190 --> 02:49:28,880
uh

4355
02:49:33,910 --> 02:49:31,200
tenacious malibu mike whatever you want

4356
02:49:37,670 --> 02:49:33,920
to call me that's all good

4357
02:49:41,269 --> 02:49:37,680
malibu mike okay got it

4358
02:49:43,349 --> 02:49:41,279
f1 on many shows for many years

4359
02:49:45,110 --> 02:49:43,359
you know i've been into this since i was

4360
02:49:47,030 --> 02:49:45,120
a kid and

4361
02:49:47,990 --> 02:49:47,040
had abductions

4362
02:49:50,870 --> 02:49:48,000
just

4363
02:49:52,950 --> 02:49:50,880

led into the subject and kept

4364

02:49:55,590 --> 02:49:52,960
over and over and over collecting

4365

02:49:58,070 --> 02:49:55,600
information and videos and

4366

02:49:59,830 --> 02:49:58,080
you know sometimes

4367

02:50:01,990 --> 02:49:59,840
i'm going to ask you to just take a step

4368

02:50:04,790 --> 02:50:02,000
back and try to absorb what i'm saying

4369

02:50:09,670 --> 02:50:06,870
sometimes

4370

02:50:12,309 --> 02:50:09,680
you have to step back and just say

4371

02:50:14,150 --> 02:50:12,319
certain things hit you

4372

02:50:17,190 --> 02:50:14,160
and it makes so much sense and it's the

4373

02:50:19,349 --> 02:50:17,200
simplest of thoughts and i want to just

4374

02:50:20,469 --> 02:50:19,359
share this with you and get your opinion

4375

02:50:22,630 --> 02:50:20,479
on it

4376
02:50:24,710 --> 02:50:22,640
it's like

4377
02:50:29,349 --> 02:50:24,720
if

4378
02:50:31,110 --> 02:50:29,359
not ours but theirs

4379
02:50:35,429 --> 02:50:31,120
wouldn't they just send

4380
02:50:37,670 --> 02:50:35,439
all types of crafts into our vision

4381
02:50:38,710 --> 02:50:37,680
i mean who's going to send a single

4382
02:50:41,349 --> 02:50:38,720
scout

4383
02:50:44,309 --> 02:50:41,359
here and there

4384
02:50:46,070 --> 02:50:44,319
it wouldn't just be a whole fleet if i

4385
02:50:47,670 --> 02:50:46,080
mean if they're going to show up aren't

4386
02:50:50,790 --> 02:50:47,680
they just going to come and say hey here

4387
02:50:52,150 --> 02:50:50,800
we are and i mean do you understand

4388
02:50:53,990 --> 02:50:52,160

where i'm going maybe you could help me

4389

02:50:55,269 --> 02:50:54,000

out with my thought here jim but it's

4390

02:50:57,590 --> 02:50:55,279

like

4391

02:51:01,269 --> 02:50:57,600

i was just thinking the other night

4392

02:51:03,030 --> 02:51:01,279

my god you know i mean enough of the

4393

02:51:05,030 --> 02:51:03,040

the one neighbor that's playing hide and

4394

02:51:09,000 --> 02:51:05,040

go seek wouldn't the whole neighborhood

4395

02:51:13,510 --> 02:51:12,070

[Music]

4396

02:51:15,429 --> 02:51:13,520

and okay

4397

02:51:17,510 --> 02:51:15,439

anything is possible

4398

02:51:19,349 --> 02:51:17,520

so you can't say no to that you can't

4399

02:51:21,590 --> 02:51:19,359

say yes to that i don't think that

4400

02:51:23,910 --> 02:51:21,600

there's enough data

4401
02:51:24,710 --> 02:51:23,920
there to support either side

4402
02:51:25,750 --> 02:51:24,720
um

4403
02:51:29,590 --> 02:51:25,760
but

4404
02:51:31,830 --> 02:51:29,600
i i

4405
02:51:34,309 --> 02:51:31,840
when we don't have the ability to catch

4406
02:51:37,429 --> 02:51:34,319
up with their ships we don't have

4407
02:51:38,950 --> 02:51:37,439
the ability to do much of any type of

4408
02:51:41,670 --> 02:51:38,960
resistance

4409
02:51:43,670 --> 02:51:41,680
i mean so what's really stopping

4410
02:51:46,230 --> 02:51:43,680
our star brothers and sisters for just

4411
02:51:49,950 --> 02:51:46,240
coming up and just and like really just

4412
02:51:55,670 --> 02:51:49,960
going okay now what you know what i mean

4413
02:51:56,630 --> 02:51:55,680

yes okay but it it's really this simple

4414

02:52:01,110 --> 02:51:56,640

and

4415

02:52:04,309 --> 02:52:01,120

me on this

4416

02:52:06,309 --> 02:52:04,319

um there is intelligent life on this

4417

02:52:07,750 --> 02:52:06,319

planet all over the place that isn't

4418

02:52:11,349 --> 02:52:07,760

human

4419

02:52:13,510 --> 02:52:11,359

that that that knows what's going on

4420

02:52:16,309 --> 02:52:13,520

but that doesn't mean

4421

02:52:19,830 --> 02:52:16,319

that you know one of the most uh

4422

02:52:22,309 --> 02:52:19,840

intelligent animals on this planet

4423

02:52:23,590 --> 02:52:22,319

is the raven

4424

02:52:26,389 --> 02:52:23,600

but how

4425

02:52:29,110 --> 02:52:26,399

does that mean that we're gonna teach

4426
02:52:32,230 --> 02:52:29,120
the ravens how to

4427
02:52:33,990 --> 02:52:32,240
build their own internet

4428
02:52:36,150 --> 02:52:34,000
and and

4429
02:52:39,030 --> 02:52:36,160
but hold on mike

4430
02:52:40,150 --> 02:52:39,040
mike mike hear me out i'm with walter

4431
02:52:42,389 --> 02:52:40,160
okay just

4432
02:52:45,670 --> 02:52:42,399
just stay with me

4433
02:52:49,510 --> 02:52:45,680
an advanced civilization

4434
02:52:52,950 --> 02:52:49,520
that can get here we can't get there but

4435
02:52:53,830 --> 02:52:52,960
ha that has the technical ability

4436
02:53:03,510 --> 02:52:53,840
to

4437
02:53:06,389 --> 02:53:03,520
distances vast distances our milky way

4438
02:53:10,790 --> 02:53:06,399

just our milky way is a hundred and

4439

02:53:12,630 --> 02:53:10,800

fifty thousand light years across 150

4440

02:53:15,670 --> 02:53:12,640

000 light years

4441

02:53:18,870 --> 02:53:15,680

freaking andromeda right andromeda do

4442

02:53:21,670 --> 02:53:18,880

you know how far away andromeda is

4443

02:53:24,550 --> 02:53:21,680

it's a long ways

4444

02:53:27,590 --> 02:53:24,560

okay so anything that can travel and

4445

02:53:29,910 --> 02:53:27,600

figure out a way to get from point a to

4446

02:53:32,870 --> 02:53:29,920

point b not only in this milky way but

4447

02:53:36,790 --> 02:53:32,880

across the universe when they get here

4448

02:53:41,910 --> 02:53:36,800

who are we to them

4449

02:53:44,070 --> 02:53:41,920

possible to even have a grip

4450

02:53:44,950 --> 02:53:44,080

of communication and understanding each

4451
02:53:47,429 --> 02:53:44,960
other

4452
02:53:50,070 --> 02:53:47,439
any it's not any i'm not talking about

4453
02:53:52,070 --> 02:53:50,080
us communicating with ants i'm talking

4454
02:53:53,990 --> 02:53:52,080
about us communicating with chimpanzees

4455
02:53:58,070 --> 02:53:54,000
and apes and ravens

4456
02:53:59,590 --> 02:53:58,080
very very smart creatures an octopus and

4457
02:54:01,030 --> 02:53:59,600
a dolphin

4458
02:54:02,710 --> 02:54:01,040
right

4459
02:54:05,670 --> 02:54:02,720
we can't

4460
02:54:08,230 --> 02:54:05,680
and and we live together on this planet

4461
02:54:09,910 --> 02:54:08,240
so to think that uh

4462
02:54:11,030 --> 02:54:09,920
you know they would come here and just

4463
02:54:15,190 --> 02:54:11,040

hang out

4464

02:54:16,950 --> 02:54:15,200

and just show us things

4465

02:54:19,190 --> 02:54:16,960

we can't even do that here on our own

4466

02:54:20,870 --> 02:54:19,200

planet with their own species that that

4467

02:54:23,750 --> 02:54:20,880

live among us

4468

02:54:25,830 --> 02:54:23,760

and and that's we got to think way

4469

02:54:27,830 --> 02:54:25,840

outside of the box here

4470

02:54:32,070 --> 02:54:27,840

and and try to understand this why

4471

02:54:36,070 --> 02:54:33,349

we're not doing

4472

02:54:38,550 --> 02:54:36,080

why we're not showing ravens how to do

4473

02:54:40,070 --> 02:54:38,560

open-heart surgery

4474

02:54:42,150 --> 02:54:40,080

we're not doing that

4475

02:54:44,389 --> 02:54:42,160

and and that's that's i don't think that

4476
02:54:46,469 --> 02:54:44,399
there's another way to look at it mike i

4477
02:54:48,389 --> 02:54:46,479
i really don't i

4478
02:54:50,950 --> 02:54:48,399
got so much input jim and i'm going to

4479
02:54:54,230 --> 02:54:50,960
try to streamline it okay

4480
02:54:57,349 --> 02:54:54,240
um i know we have jump rooms i know what

4481
02:54:59,830 --> 02:54:57,359
crt's are when there are moments where

4482
02:55:01,190 --> 02:54:59,840
their crafts can go through holes and

4483
02:55:04,070 --> 02:55:01,200
reach us

4484
02:55:05,670 --> 02:55:04,080
i i do okay here let me throw something

4485
02:55:08,230 --> 02:55:05,680
wild at you and i'm sure this will get a

4486
02:55:09,990 --> 02:55:08,240
lot of responses

4487
02:55:12,230 --> 02:55:10,000
so

4488
02:55:16,150 --> 02:55:12,240

i learned a long time ago

4489

02:55:18,550 --> 02:55:16,160

from following my own experiences

4490

02:55:21,349 --> 02:55:18,560

my thoughts and dreams were coming from

4491

02:55:23,269 --> 02:55:21,359

and i just happened to be in a place in

4492

02:55:25,349 --> 02:55:23,279

huntington beach

4493

02:55:27,190 --> 02:55:25,359

and a guy recognized me and i recognized

4494

02:55:29,110 --> 02:55:27,200

him and we had a talk and we ended up

4495

02:55:30,389 --> 02:55:29,120

going to the house and talking and i

4496

02:55:33,510 --> 02:55:30,399

said

4497

02:55:36,150 --> 02:55:33,520

so are you part of the 20 in back

4498

02:55:37,190 --> 02:55:36,160

program because i think i recognize you

4499

02:55:38,790 --> 02:55:37,200

from

4500

02:55:41,990 --> 02:55:38,800

one of the

4501
02:55:42,870 --> 02:55:42,000
groups of people i was with

4502
02:55:45,510 --> 02:55:42,880
he

4503
02:55:48,389 --> 02:55:45,520
over a period of two months

4504
02:55:50,710 --> 02:55:48,399
communicated with me and we met

4505
02:55:52,469 --> 02:55:50,720
that he said he was part of the 20 and

4506
02:55:55,830 --> 02:55:52,479
back program

4507
02:55:57,990 --> 02:55:55,840
i asked very explicit questions that

4508
02:56:01,110 --> 02:55:58,000
only someone part of that program would

4509
02:56:03,670 --> 02:56:01,120
know like i'm saying okay

4510
02:56:05,830 --> 02:56:03,680
where were you what were you doing he

4511
02:56:08,070 --> 02:56:05,840
was on a cargo vessel they would go into

4512
02:56:11,429 --> 02:56:08,080
diego garcia

4513
02:56:13,190 --> 02:56:11,439

they would trade with aliens they were

4514

02:56:15,349 --> 02:56:13,200

on different planets

4515

02:56:17,429 --> 02:56:15,359

such as ceres

4516

02:56:20,070 --> 02:56:17,439

they would

4517

02:56:22,950 --> 02:56:20,080

trade with aliens

4518

02:56:24,950 --> 02:56:22,960

and he i said how do you live

4519

02:56:26,870 --> 02:56:24,960

how do you if you're not supposed to be

4520

02:56:28,790 --> 02:56:26,880

recognized how do you live i mean how do

4521

02:56:31,510 --> 02:56:28,800

you get your food how do you pay for

4522

02:56:34,710 --> 02:56:31,520

your bills he said well i'm on a credit

4523

02:56:36,790 --> 02:56:34,720

system all i do is go places and

4524

02:56:38,870 --> 02:56:36,800

i charge credits

4525

02:56:42,550 --> 02:56:38,880

and it's covered

4526

02:56:45,110 --> 02:56:42,560

um i am a firm belief i was in the

4527

02:56:47,349 --> 02:56:45,120

service where i was a crypto where i was

4528

02:56:49,510 --> 02:56:47,359

stationed at diego garcia

4529

02:56:51,670 --> 02:56:49,520

and i did happen to see some really

4530

02:56:53,590 --> 02:56:51,680

weird things going on at two and three

4531

02:56:55,750 --> 02:56:53,600

in the morning when we were supposed to

4532

02:56:57,990 --> 02:56:55,760

be locked down in our barracks

4533

02:57:00,309 --> 02:56:58,000

but i wasn't always paying attention to

4534

02:57:03,269 --> 02:57:00,319

the regulations

4535

02:57:06,950 --> 02:57:03,279

and i did see things coming in

4536

02:57:10,150 --> 02:57:06,960

to the bay near diego garcia

4537

02:57:12,550 --> 02:57:10,160

that were as huge as a football stadium

4538

02:57:14,870 --> 02:57:12,560

well then but then but mike and i've got

4539

02:57:15,910 --> 02:57:14,880

a i've got a i've got to run in about uh

4540

02:57:18,469 --> 02:57:15,920

two minutes

4541

02:57:20,230 --> 02:57:18,479

then what you are saying

4542

02:57:22,070 --> 02:57:20,240

to be open to what i'm saying because i

4543

02:57:24,870 --> 02:57:22,080

know it brother i've never lied to you

4544

02:57:27,590 --> 02:57:24,880

and i never will yeah mike mike but what

4545

02:57:28,870 --> 02:57:27,600

what what you just said

4546

02:57:29,910 --> 02:57:28,880

was

4547

02:57:33,670 --> 02:57:29,920

um

4548

02:57:36,070 --> 02:57:33,680

not the opposite but it was

4549

02:57:38,710 --> 02:57:36,080

contradicting what you had said at the

4550

02:57:40,870 --> 02:57:38,720

beginning of the phone call which is why

4551
02:57:43,830 --> 02:57:40,880
are they why why are why aren't they

4552
02:57:46,630 --> 02:57:43,840
here in groups well apparently they are

4553
02:57:49,269 --> 02:57:46,640
if if we're doing interstellar trade

4554
02:57:51,510 --> 02:57:49,279
out of diego garcia i mean

4555
02:57:53,990 --> 02:57:51,520
visibly in groups

4556
02:57:57,590 --> 02:57:54,000
while they're doing it you just said uh

4557
02:58:00,550 --> 02:57:57,600
how big was the craft at diego garcia

4558
02:58:02,550 --> 02:58:00,560
well i i when i saw it the only way i

4559
02:58:05,590 --> 02:58:02,560
could compare it jim was it would have

4560
02:58:08,710 --> 02:58:05,600
fit over the coliseum right so they are

4561
02:58:11,190 --> 02:58:08,720
doing what you're saying

4562
02:58:12,950 --> 02:58:11,200
well but it's not being obviously we're

4563
02:58:15,190 --> 02:58:12,960

being disinformed

4564

02:58:19,750 --> 02:58:15,200

well that's that part's true i mean i've

4565

02:58:22,870 --> 02:58:19,760

got a friend of mine who uh i i i trust

4566

02:58:24,710 --> 02:58:22,880

and respect a lot and he doesn't

4567

02:58:28,309 --> 02:58:24,720

uh want to come on the show and talk

4568

02:58:34,309 --> 02:58:29,910

this with him over the years and he was

4569

02:58:37,110 --> 02:58:34,319

in downtown l.a uh he was uh in in

4570

02:58:39,830 --> 02:58:37,120

downtown l.a working with a friend he

4571

02:58:42,550 --> 02:58:39,840

looks up in the sky he sees some static

4572

02:58:44,790 --> 02:58:42,560

and then he looks again and a ship was

4573

02:58:47,590 --> 02:58:44,800

flying through the clouds

4574

02:58:50,389 --> 02:58:47,600

uh to the west that looked like an

4575

02:58:53,190 --> 02:58:50,399

aircraft carrier tipped upside down

4576

02:58:55,830 --> 02:58:53,200

and he said it was a mile long

4577

02:58:57,590 --> 02:58:55,840

up there and now now this is this is a

4578

02:58:59,110 --> 02:58:57,600

friend of mine

4579

02:59:01,110 --> 02:58:59,120

and

4580

02:59:03,510 --> 02:59:01,120

this uh

4581

02:59:05,349 --> 02:59:03,520

he's a bit of a i don't know why i don't

4582

02:59:06,710 --> 02:59:05,359

want to give too much away here a bit of

4583

02:59:10,550 --> 02:59:06,720

a celebrity

4584

02:59:13,269 --> 02:59:10,560

and and and in in that world so he can't

4585

02:59:15,349 --> 02:59:13,279

he doesn't want to uh to to be public

4586

02:59:17,429 --> 02:59:15,359

with this but

4587

02:59:18,870 --> 02:59:17,439

but he's shared this with me and i've

4588

02:59:22,150 --> 02:59:18,880

talked to him about

4589

02:59:23,269 --> 02:59:22,160

this experience for hours in great

4590

02:59:24,309 --> 02:59:23,279

detail

4591

02:59:26,230 --> 02:59:24,319

so

4592

02:59:28,389 --> 02:59:26,240

you're not the only one to say suggest

4593

02:59:30,550 --> 02:59:28,399

this and and to say these things

4594

02:59:32,950 --> 02:59:30,560

and this is somebody that absolutely

4595

02:59:34,309 --> 02:59:32,960

does not want to go public doesn't want

4596

02:59:36,630 --> 02:59:34,319

to do anything

4597

02:59:38,710 --> 02:59:36,640

but uh but he shared this experience

4598

02:59:47,990 --> 02:59:38,720

with me mike with that i got to get off

4599

02:59:52,630 --> 02:59:50,710

in 1978

4600

02:59:54,150 --> 02:59:52,640

i watched the craft come out of the

4601
02:59:57,030 --> 02:59:54,160
water

4602
02:59:58,630 --> 02:59:57,040
when we were on the way to new zealand

4603
03:00:06,550 --> 02:59:58,640
it

4604
03:00:09,349 --> 03:00:06,560
structures in the windows

4605
03:00:12,309 --> 03:00:09,359
i reported it to my commanding officer

4606
03:00:14,870 --> 03:00:12,319
and i got kicked out of the service

4607
03:00:16,389 --> 03:00:14,880
for reporting that and and three other

4608
03:00:18,550 --> 03:00:16,399
people signed

4609
03:00:20,309 --> 03:00:18,560
mike have a great night and thank you

4610
03:00:22,870 --> 03:00:20,319
for sharing that with us my friend i

4611
03:00:24,230 --> 03:00:22,880
gotta roll credits and get out of here

4612
03:00:25,750 --> 03:00:24,240
have a great night mike thank you so

4613
03:00:27,510 --> 03:00:25,760

much

4614

03:00:29,990 --> 03:00:27,520

thanks jim

4615

03:00:32,150 --> 03:00:30,000

this is fade to black i am your host

4616

03:00:35,830 --> 03:00:32,160

jimmy church what a great night

4617

03:00:37,510 --> 03:00:35,840

isaac arthur bringing his a game

4618

03:00:39,429 --> 03:00:37,520

absolutely incredible conversation

4619

03:00:41,190 --> 03:00:39,439

tonight black is produced by hill j

4620

03:00:43,110 --> 03:00:41,200

palmer nate dennis and kevin

4621

03:00:45,190 --> 03:00:43,120

announcers are steve harder gene vettel

4622

03:00:48,230 --> 03:00:45,200

and mark d kovar webmaster is drew the

4623

03:00:50,230 --> 03:00:48,240

geek music doug aldrige intro spaceboy

4624

03:00:52,230 --> 03:00:50,240

spaceboymusic.com

4625

03:00:54,389 --> 03:00:52,240

fade to black is produced by kjcr for

4626
03:00:57,269 --> 03:00:54,399
the game changer network this broadcast

4627
03:00:59,110 --> 03:00:57,279
is own and copyrighted 2021 by fade to

4628
03:01:00,950 --> 03:00:59,120
black and the game changer network inc

4629
03:01:02,389 --> 03:01:00,960
it cannot be rebroadcast downloaded

4630
03:01:04,309 --> 03:01:02,399
copied or used anywhere in the known

4631
03:01:05,590 --> 03:01:04,319
universe without written permission from

4632
03:01:07,670 --> 03:01:05,600
fade to black or the game changer

4633
03:01:09,750 --> 03:01:07,680
network i'm yours jimmy church tomorrow

4634
03:01:15,190 --> 03:01:09,760
night right here fader night

4635
03:01:18,070 --> 03:01:15,200
open lines all night long until then

4636
03:01:24,160 --> 03:01:18,080
i want everybody to be safe

4637
03:01:26,920 --> 03:01:24,320
[Music]

4638
03:01:46,020 --> 03:01:26,930

[Applause]