

# FADE TO BLACK

with **JIMMY CHURCH**

**PRESENTS**

**JIMMY CHURCH**

**THE FERMI PARADOX**

**THUR DEC 08 LIVE**

**7:00 PM PT/10:00PM ET**

**THE  
FERMI  
PARADOX**

1  
00:00:37,930 --> 00:00:33,010

[Music]

2  
00:00:41,270 --> 00:00:37,940

the smoke radio for the masses of July 8

3  
00:00:43,670 --> 00:00:41,280

1947 the Army Air Forces has announced

4  
00:00:46,190 --> 00:00:43,680

that a flying disc has been found and is

5  
00:00:50,750 --> 00:00:46,200

now in the possession of the army

6  
00:00:53,510 --> 00:00:50,760

rigs change the game game changer I

7  
00:00:57,110 --> 00:00:53,520

occasionally think how quickly hard

8  
00:00:59,569 --> 00:00:57,120

difference is worldwide would vanish if

9  
00:01:02,710 --> 00:00:59,579

we were facing an alien threat from

10  
00:01:02,890 --> 00:01:02,720

outside this work

11  
00:01:05,230 --> 00:01:02,900

[Applause]

12  
00:01:08,149 --> 00:01:05,240

[Music]

13  
00:01:11,030 --> 00:01:08,159

this is Fade to Black with your host

14  
00:01:11,680 --> 00:01:11,040  
Jimmy Church on the game changer Radio

15  
00:01:15,230 --> 00:01:11,690  
Network

16  
00:01:22,210 --> 00:01:18,230  
all right good evening

17  
00:01:24,469 --> 00:01:22,220  
tonight it is Thursday December 8

18  
00:01:28,910 --> 00:01:24,479  
2022. I'm Yours Jimmy church this is

19  
00:01:33,770 --> 00:01:28,920  
faded black and we are going to do a

20  
00:01:37,069 --> 00:01:33,780  
deep dive into the Fermi paradox

21  
00:01:39,410 --> 00:01:37,079  
and this is important uh for a lot of

22  
00:01:41,990 --> 00:01:39,420  
reasons and it this is going to be in

23  
00:01:44,569 --> 00:01:42,000  
depth it's going to be comprehensive uh

24  
00:01:47,450 --> 00:01:44,579  
no illustrations just talk

25  
00:01:50,929 --> 00:01:47,460  
um there's not a whole lot by the way uh

26  
00:01:53,749 --> 00:01:50,939  
out there to represent uh what the Fermi

27  
00:01:56,389 --> 00:01:53,759  
Paradox is I could show but but images

28  
00:01:59,149 --> 00:01:56,399  
of flying saucers and starships and

29  
00:02:00,469 --> 00:01:59,159  
planets and stuff but nah that uh

30  
00:02:01,969 --> 00:02:00,479  
doesn't have a whole lot to do with

31  
00:02:05,530 --> 00:02:01,979  
anything

32  
00:02:08,749 --> 00:02:05,540  
um yeah but it is important today

33  
00:02:11,229 --> 00:02:08,759  
uh more than ever before

34  
00:02:16,010 --> 00:02:11,239  
because if we

35  
00:02:19,130 --> 00:02:16,020  
discuss the basics of the Fermi paradox

36  
00:02:21,170 --> 00:02:19,140  
um the way it was brought out and and

37  
00:02:23,570 --> 00:02:21,180  
discussed you know going back to 1950

38  
00:02:26,330 --> 00:02:23,580

and I'll talk about that in a second

39

00:02:27,890 --> 00:02:26,340

um how would that apply today in uh 2022

40

00:02:30,589 --> 00:02:27,900

with everything else that is going on

41

00:02:33,290 --> 00:02:30,599

and and how we have advanced in science

42

00:02:35,570 --> 00:02:33,300

right it's uh it's uh it's an

43

00:02:38,570 --> 00:02:35,580

interesting thing because

44

00:02:41,270 --> 00:02:38,580

well I would suggest and I'm going to

45

00:02:44,930 --> 00:02:41,280

circle back to this many times tonight

46

00:02:48,650 --> 00:02:44,940

that I don't think uh Fermi

47

00:02:50,089 --> 00:02:48,660

Enrico Enrico for me would ask the same

48

00:02:53,990 --> 00:02:50,099

question

49

00:02:56,650 --> 00:02:54,000

so what is the Fermi Paradox what am I

50

00:03:00,850 --> 00:02:56,660

talking about here it is one of the most

51  
00:03:05,089 --> 00:03:00,860  
interesting subjects uh that I

52  
00:03:09,650 --> 00:03:05,099  
continually digest I am constantly

53  
00:03:12,890 --> 00:03:09,660  
chewing on this and and looking at all

54  
00:03:17,089 --> 00:03:12,900  
of the different uh filters and answers

55  
00:03:20,390 --> 00:03:17,099  
uh to the Fermi Paradox and how some of

56  
00:03:22,790 --> 00:03:20,400  
the great minds uh over the years and

57  
00:03:26,509 --> 00:03:22,800  
decades have thought about the Fermi

58  
00:03:30,170 --> 00:03:26,519  
Paradox and applied their thoughts to it

59  
00:03:31,369 --> 00:03:30,180  
um now Enrico Fermi uh is uh was a

60  
00:03:35,210 --> 00:03:31,379  
physicist

61  
00:03:37,430 --> 00:03:35,220  
and without going into all of his

62  
00:03:39,710 --> 00:03:37,440  
accomplishments because that's just an

63  
00:03:42,530 --> 00:03:39,720

entire show right there but he's got

64

00:03:44,509 --> 00:03:42,540

Laboratories and complexes and buildings

65

00:03:45,910 --> 00:03:44,519

named after him

66

00:03:50,830 --> 00:03:45,920

um all around the world

67

00:03:54,289 --> 00:03:50,840

and uh his his knowledge and his vision

68

00:03:58,309 --> 00:03:54,299

uh Advanced science and Advance this

69

00:04:01,729 --> 00:03:58,319

planet uh but by leaps by leaps his

70

00:04:04,309 --> 00:04:01,739

contributions to science are are things

71

00:04:05,690 --> 00:04:04,319

that just cannot be measured but we talk

72

00:04:10,670 --> 00:04:05,700

about them all the time

73

00:04:14,210 --> 00:04:10,680

and his name is associated with the

74

00:04:17,870 --> 00:04:14,220

Paradox because of a conversation

75

00:04:20,569 --> 00:04:17,880

that happened back in the summer of 1950

76

00:04:23,150 --> 00:04:20,579

and the story now you know what is a

77

00:04:26,830 --> 00:04:23,160

legend and what is legendary right well

78

00:04:30,650 --> 00:04:26,840

go and look up those uh definitions

79

00:04:32,930 --> 00:04:30,660

because it is stuff of Legend today this

80

00:04:35,749 --> 00:04:32,940

this conversation

81

00:04:40,670 --> 00:04:35,759

um with fellow physicist Edward Teller

82

00:04:42,850 --> 00:04:40,680

right Herbert York and Emil uh uh Connor

83

00:04:48,950 --> 00:04:42,860

Pinsky now

84

00:04:51,430 --> 00:04:48,960

while at lunch in the cafeteria

85

00:04:54,469 --> 00:04:51,440

um at Los Alamos

86

00:04:56,030 --> 00:04:54,479

uh they they were discussing what was

87

00:04:57,650 --> 00:04:56,040

going on around the country at that time

88

00:05:03,350 --> 00:04:57,660

which was

89

00:05:05,230 --> 00:05:03,360

this is 1950 a lot of UFO sightings okay

90

00:05:07,790 --> 00:05:05,240

flying saucers

91

00:05:09,530 --> 00:05:07,800

everywhere it was the headlines it was

92

00:05:11,110 --> 00:05:09,540

the news it was the radio it was TVs

93

00:05:14,150 --> 00:05:11,120

magazines

94

00:05:17,210 --> 00:05:14,160

and uh that that was the conversation so

95

00:05:20,590 --> 00:05:17,220

you get a bunch of scientists around uh

96

00:05:23,390 --> 00:05:20,600

the the table in a cafeteria over lunch

97

00:05:24,430 --> 00:05:23,400

and this is what is going to be talked

98

00:05:26,990 --> 00:05:24,440

about

99

00:05:29,090 --> 00:05:27,000

and one of the things and especially

100

00:05:31,870 --> 00:05:29,100

when you get physicists together

101  
00:05:36,110 --> 00:05:31,880  
and and and back then

102  
00:05:39,170 --> 00:05:36,120  
uh Einstein well one was still alive but

103  
00:05:42,590 --> 00:05:39,180  
but Einstein was the center of

104  
00:05:44,629 --> 00:05:42,600  
everything and one of the biggest

105  
00:05:47,689 --> 00:05:44,639  
contributions that Einstein brought was

106  
00:05:50,870 --> 00:05:47,699  
E equals m c squared and the speed of

107  
00:05:53,270 --> 00:05:50,880  
light and that nothing could travel

108  
00:05:54,350 --> 00:05:53,280  
faster than the speed of light so these

109  
00:05:58,610 --> 00:05:54,360  
guys are sitting around the table

110  
00:06:00,890 --> 00:05:58,620  
discussing how these flying saucers were

111  
00:06:04,370 --> 00:06:00,900  
getting to Earth and with the vast

112  
00:06:08,029 --> 00:06:04,380  
distances in space and and how spread

113  
00:06:11,689 --> 00:06:08,039

out things were just uh in our own Milky

114

00:06:15,230 --> 00:06:11,699

Way that these flying saucers would have

115

00:06:17,570 --> 00:06:15,240

to be traveling faster than the speed of

116

00:06:21,230 --> 00:06:17,580

light right and this is the conversation

117

00:06:24,110 --> 00:06:21,240

and as they sat there and talked

118

00:06:27,170 --> 00:06:24,120

um the conversation moved on uh to other

119

00:06:29,629 --> 00:06:27,180

topics uh you know flying saucers

120

00:06:33,350 --> 00:06:29,639

getting here the sightings the amount of

121

00:06:35,029 --> 00:06:33,360

things and and they talk about the size

122

00:06:39,529 --> 00:06:35,039

of the Milky Way

123

00:06:42,650 --> 00:06:39,539

and how many planets must be out there

124

00:06:45,950 --> 00:06:42,660

with with the vast stars and and you got

125

00:06:47,689 --> 00:06:45,960

to remember this is 1950 so the count of

126  
00:06:50,450 --> 00:06:47,699  
everything was off and we will go back

127  
00:06:51,710 --> 00:06:50,460  
and visit all of that uh tonight many

128  
00:06:56,330 --> 00:06:51,720  
times

129  
00:06:58,790 --> 00:06:56,340  
and uh so uh so Fermi

130  
00:07:00,950 --> 00:06:58,800  
starts calculating

131  
00:07:02,629 --> 00:07:00,960  
okay and he's sitting there and

132  
00:07:05,570 --> 00:07:02,639  
everybody was watching him and he was

133  
00:07:07,610 --> 00:07:05,580  
thinking he said man this has got to be

134  
00:07:10,610 --> 00:07:07,620  
there's got to be hundreds of millions

135  
00:07:11,450 --> 00:07:10,620  
of civilizations out there there has to

136  
00:07:16,129 --> 00:07:11,460  
be

137  
00:07:18,050 --> 00:07:16,139  
but and he blurts out I'm the The Legend

138  
00:07:21,230 --> 00:07:18,060

goes you know he yells out

139

00:07:25,670 --> 00:07:24,409

but where is everybody

140

00:07:29,210 --> 00:07:25,680

right

141

00:07:30,950 --> 00:07:29,220

now although the exact quote is

142

00:07:33,290 --> 00:07:30,960

uncertain

143

00:07:35,710 --> 00:07:33,300

that's uh that's the Fermi Paradox

144

00:07:38,390 --> 00:07:35,720

there's got to be vast life out there

145

00:07:40,969 --> 00:07:38,400

but where is everybody right there's got

146

00:07:44,570 --> 00:07:40,979

to be vast life that's the paradox

147

00:07:47,270 --> 00:07:44,580

to be full of life teeming with life

148

00:07:52,129 --> 00:07:47,280

but where is everybody now

149

00:07:55,129 --> 00:07:52,139

in in the context that Fermi was

150

00:07:57,529 --> 00:07:55,139

probably thinking about and again uh we

151

00:08:00,170 --> 00:07:57,539

can't all get inside of his head

152

00:08:03,409 --> 00:08:00,180

but he was thinking a little bit more

153

00:08:07,370 --> 00:08:03,419

logically like a scientist and it wasn't

154

00:08:10,089 --> 00:08:07,380

that are are we being visited

155

00:08:13,850 --> 00:08:10,099

his thought processes

156

00:08:16,870 --> 00:08:13,860

communication you know visiting us all

157

00:08:19,309 --> 00:08:16,880

the time coming down Interstellar trade

158

00:08:22,670 --> 00:08:19,319

relationships that's what he was

159

00:08:26,749 --> 00:08:22,680

referring to not not the sightings the

160

00:08:30,050 --> 00:08:26,759

sightings is what spurred this this

161

00:08:32,389 --> 00:08:30,060

blurting out of but where is everybody

162

00:08:34,190 --> 00:08:32,399

but he was thinking

163

00:08:35,990 --> 00:08:34,200

that we should have friendships we

164

00:08:38,089 --> 00:08:36,000

should have relationships we should know

165

00:08:40,370 --> 00:08:38,099

about these civilizations they should be

166

00:08:42,949 --> 00:08:40,380

interested in us like Neighbors

167

00:08:46,730 --> 00:08:42,959

you know so where is everybody

168

00:08:49,310 --> 00:08:46,740

and now the reason why I say that he

169

00:08:54,290 --> 00:08:49,320

probably wouldn't say it today

170

00:08:55,850 --> 00:08:54,300

or at least the same way or with the

171

00:08:57,410 --> 00:08:55,860

same mindset

172

00:08:59,870 --> 00:08:57,420

is

173

00:09:05,630 --> 00:08:59,880

we see things now

174

00:09:08,750 --> 00:09:05,640

conversations about uaps and UFOs and

175

00:09:10,790 --> 00:09:08,760

and videos and photographs and and fast

176

00:09:14,870 --> 00:09:10,800

radio bursts in the web telescope and

177

00:09:16,970 --> 00:09:14,880

and exoplanets and everything that we we

178

00:09:19,130 --> 00:09:16,980

study today and know today and are

179

00:09:22,130 --> 00:09:19,140

investigating today and asking questions

180

00:09:27,290 --> 00:09:22,140

about today they weren't anywhere near

181

00:09:32,090 --> 00:09:27,300

that back in 1950 so would in in Rico

182

00:09:37,310 --> 00:09:32,100

today ask the same question probably not

183

00:09:40,910 --> 00:09:37,320

probably not I and and I think that the

184

00:09:44,269 --> 00:09:40,920

the general agreement

185

00:09:46,370 --> 00:09:44,279

of scientists and certainly the world

186

00:09:48,790 --> 00:09:46,380

population but scientists in general the

187

00:09:50,829 --> 00:09:48,800

the big thinkers out there

188

00:09:54,110 --> 00:09:50,839

especially of the hard Sciences

189

00:09:58,190 --> 00:09:54,120

understand the size of the universe now

190

00:10:01,370 --> 00:09:58,200

the size of the Milky Way and and what

191

00:10:03,350 --> 00:10:01,380

chemistry is and and how the universe uh

192

00:10:08,150 --> 00:10:03,360

it builds itself and how stars are

193

00:10:09,710 --> 00:10:08,160

created and and they know that life is

194

00:10:13,190 --> 00:10:09,720

everywhere what we know today about

195

00:10:15,170 --> 00:10:13,200

amino acids and and and what is carried

196

00:10:18,530 --> 00:10:15,180

around on asteroids and everything else

197

00:10:21,050 --> 00:10:18,540

and the possibility of a pan spermia and

198

00:10:24,070 --> 00:10:21,060

and and and and that will will Circle

199

00:10:26,030 --> 00:10:24,080

back to that too as well this knowledge

200

00:10:29,750 --> 00:10:26,040

changes everything

201  
00:10:34,750 --> 00:10:29,760  
and there was another part to this

202  
00:10:38,329 --> 00:10:34,760  
that the Fermi Paradox gets gets tied to

203  
00:10:39,769 --> 00:10:38,339  
all the time and for good reason

204  
00:10:43,670 --> 00:10:39,779  
um but again something that's a little

205  
00:10:48,829 --> 00:10:43,680  
bit outdated is the Drake equation

206  
00:10:51,590 --> 00:10:48,839  
so when we look at that and Frank Drake

207  
00:10:53,269 --> 00:10:51,600  
um the theory what what is the what is

208  
00:10:55,970 --> 00:10:53,279  
the Drake equation well let's let's

209  
00:11:00,050 --> 00:10:55,980  
break this down a little bit

210  
00:11:02,870 --> 00:11:00,060  
in in a nutshell the Drake equation are

211  
00:11:05,090 --> 00:11:02,880  
are a collection of theories and

212  
00:11:06,290 --> 00:11:05,100  
principles that are built into the Drake

213  
00:11:10,009 --> 00:11:06,300

equation

214

00:11:12,829 --> 00:11:10,019

which closely relate back to the Fermi

215

00:11:15,949 --> 00:11:12,839

Paradox the equation was formulated by

216

00:11:19,250 --> 00:11:15,959

Frank Drake back in 1961. remember the

217

00:11:21,829 --> 00:11:19,260

conversation at Los Alamos with with Ed

218

00:11:25,370 --> 00:11:21,839

teller and Enrico for me that was 1950.

219

00:11:29,810 --> 00:11:25,380

11 years later Frank Drake uh came out

220

00:11:35,269 --> 00:11:29,820

with this sequence this algorithm in an

221

00:11:36,470 --> 00:11:35,279

attempt to find a means uh to to

222

00:11:42,050 --> 00:11:36,480

evaluate

223

00:11:43,790 --> 00:11:42,060

right and and to insert numbers and

224

00:11:47,030 --> 00:11:43,800

projections

225

00:11:51,050 --> 00:11:47,040

that would be involved

226

00:11:54,110 --> 00:11:51,060

and help talk about the existence of

227

00:11:58,790 --> 00:11:54,120

alien knife uh alien life alien life

228

00:12:01,730 --> 00:11:58,800

alien life and now I'm not a physicist

229

00:12:04,310 --> 00:12:01,740

I'm not a mathematician nah I barely

230

00:12:05,829 --> 00:12:04,320

made it through geometry never went to

231

00:12:09,370 --> 00:12:05,839

Geometry too

232

00:12:14,210 --> 00:12:09,380

uh algebra one was was tough

233

00:12:19,910 --> 00:12:16,430

math and I

234

00:12:21,590 --> 00:12:19,920

know but the equation

235

00:12:24,170 --> 00:12:21,600

and I'm going to go through this right

236

00:12:26,150 --> 00:12:24,180

now and if I quote it wrong and if I

237

00:12:28,850 --> 00:12:26,160

don't speak like a physicist or a

238

00:12:33,490 --> 00:12:28,860

mathematician you have to excuse me

239

00:12:37,850 --> 00:12:33,500

but uh the equation as I read it is n

240

00:12:39,949 --> 00:12:37,860

equals R times f p times n e times f l

241

00:12:43,490 --> 00:12:39,959

times f i

242

00:12:45,290 --> 00:12:43,500

times FC equals l

243

00:12:47,389 --> 00:12:45,300

all right

244

00:12:50,990 --> 00:12:47,399

now

245

00:12:54,170 --> 00:12:51,000

uh time zone

246

00:12:58,730 --> 00:12:54,180

and now how does this break down well n

247

00:13:02,629 --> 00:12:58,740

n equals write the equation n is the

248

00:13:05,030 --> 00:13:02,639

number of advanced civilizations in the

249

00:13:10,670 --> 00:13:05,040

Milky Way galaxy

250

00:13:14,690 --> 00:13:10,680

and n equals is the product of that

251  
00:13:16,730 --> 00:13:14,700  
algorithm which breaks down like this R

252  
00:13:19,009 --> 00:13:16,740  
and I'm going to speak briefly about

253  
00:13:21,530 --> 00:13:19,019  
each one of these

254  
00:13:24,889 --> 00:13:21,540  
um because so much of it is based on

255  
00:13:29,629 --> 00:13:24,899  
opinion and Theory right so R is the

256  
00:13:31,610 --> 00:13:29,639  
rate of formation of stars in the galaxy

257  
00:13:34,370 --> 00:13:31,620  
and how many stars are in the galaxy in

258  
00:13:37,069 --> 00:13:34,380  
1950 versus the way we calculate things

259  
00:13:39,710 --> 00:13:37,079  
today and mapping out the Milky Way all

260  
00:13:40,970 --> 00:13:39,720  
right okay

261  
00:13:55,790 --> 00:13:40,980  
f

262  
00:13:59,329 --> 00:13:55,800  
and even that we are learning more and

263  
00:14:02,030 --> 00:13:59,339

more about today versus 1950. this is

264

00:14:04,970 --> 00:14:02,040

all guesswork but the fraction of those

265

00:14:06,949 --> 00:14:04,980

stars with planetary system so notice

266

00:14:10,370 --> 00:14:06,959

fraction

267

00:14:13,310 --> 00:14:10,380

so back then in 1961

268

00:14:15,710 --> 00:14:13,320

they were thinking

269

00:14:18,050 --> 00:14:15,720

we may be the only

270

00:14:21,470 --> 00:14:18,060

star system in the Milky Way with

271

00:14:23,509 --> 00:14:21,480

planets how many Star systems out there

272

00:14:26,750 --> 00:14:23,519

have planets you know and they were

273

00:14:29,629 --> 00:14:26,760

thinking planets were rare that's why FP

274

00:14:34,129 --> 00:14:29,639

is such a funky part of the Drake

275

00:14:36,710 --> 00:14:34,139

equation today because now we know that

276

00:14:38,990 --> 00:14:36,720

every single star every single one has

277

00:14:41,030 --> 00:14:39,000

got at least one planet that's what we

278

00:14:43,129 --> 00:14:41,040

base all of our numbers on today

279

00:14:46,490 --> 00:14:43,139

right so the the number that they were

280

00:14:51,530 --> 00:14:46,500

plugging in back in uh 1961 into the

281

00:14:53,750 --> 00:14:51,540

Drake equation today that number is

282

00:14:55,610 --> 00:14:53,760

a trillion

283

00:14:57,710 --> 00:14:55,620

it's a different number back then so

284

00:15:00,949 --> 00:14:57,720

we'll Circle back to that then we have n

285

00:15:05,150 --> 00:15:00,959

e the number of planets per solar system

286

00:15:05,990 --> 00:15:05,160

with an environment suitable for organic

287

00:15:09,350 --> 00:15:06,000

life

288

00:15:12,410 --> 00:15:09,360

stop right there that's 1961. peer

289

00:15:14,990 --> 00:15:12,420

guesswork pure pure pure pure guesswork

290

00:15:17,389 --> 00:15:15,000

and it's such a low number

291

00:15:19,449 --> 00:15:17,399

because the number of planets is really

292

00:15:21,170 --> 00:15:19,459

low

293

00:15:22,970 --> 00:15:21,180

there was

294

00:15:25,550 --> 00:15:22,980

plenty of people that thought that maybe

295

00:15:27,230 --> 00:15:25,560

uh we were the only planets in the

296

00:15:29,689 --> 00:15:27,240

entire Milky Way

297

00:15:32,329 --> 00:15:29,699

right that we were all there is so

298

00:15:35,990 --> 00:15:32,339

that's a that's a funky part of this

299

00:15:38,689 --> 00:15:36,000

algorithm then we have FL

300

00:15:43,970 --> 00:15:38,699

the fraction of those suitable planets

301  
00:15:46,490 --> 00:15:43,980  
were in organic life actually appears

302  
00:15:49,009 --> 00:15:46,500  
and obviously today we're we're

303  
00:15:52,910 --> 00:15:49,019  
searching and searching Echo exoplanets

304  
00:15:55,129 --> 00:15:52,920  
with uh the web telescope but that's FL

305  
00:15:56,930 --> 00:15:55,139  
right

306  
00:16:00,710 --> 00:15:56,940  
f i

307  
00:16:04,790 --> 00:16:00,720  
the fraction of habitable planets where

308  
00:16:07,970 --> 00:16:04,800  
an intelligent life actually appears now

309  
00:16:09,710 --> 00:16:07,980  
how do you even get to that number how

310  
00:16:11,210 --> 00:16:09,720  
do you plug that into the equation then

311  
00:16:15,170 --> 00:16:11,220  
you have FC

312  
00:16:17,269 --> 00:16:15,180  
the fraction of civilizations that reach

313  
00:16:19,370 --> 00:16:17,279

the technological level whereby

314

00:16:22,129 --> 00:16:19,380

detectable signals

315

00:16:25,550 --> 00:16:22,139

may be dispatched

316

00:16:29,329 --> 00:16:25,560

and L the length of time that those

317

00:16:30,949 --> 00:16:29,339

civilizations dispatch their signals now

318

00:16:34,310 --> 00:16:30,959

I'm going to be talking about all of

319

00:16:37,189 --> 00:16:34,320

this tonight but especially those last

320

00:16:38,810 --> 00:16:37,199

four if not the entire Drake Equation

321

00:16:41,689 --> 00:16:38,820

but the last four

322

00:16:46,310 --> 00:16:41,699

totally opinion based

323

00:16:48,530 --> 00:16:46,320

formation of stars in the galaxy today

324

00:16:49,850 --> 00:16:48,540

we can come up with a pretty solid

325

00:16:51,710 --> 00:16:49,860

number for that

326

00:16:53,389 --> 00:16:51,720

all right that's a pretty solid the

327

00:16:55,310 --> 00:16:53,399

number of planets per solar system with

328

00:16:56,930 --> 00:16:55,320

an environment suitable for our organic

329

00:17:00,470 --> 00:16:56,940

light the fraction of those stars or the

330

00:17:02,269 --> 00:17:00,480

planetary systems okay so the first two

331

00:17:04,909 --> 00:17:02,279

um excuse me

332

00:17:06,650 --> 00:17:04,919

the first two we can come up with pretty

333

00:17:10,309 --> 00:17:06,660

solid numbers now

334

00:17:12,230 --> 00:17:10,319

all right so really the second half of

335

00:17:15,650 --> 00:17:12,240

the equation

336

00:17:20,929 --> 00:17:15,660

um is has always been guesswork but the

337

00:17:24,169 --> 00:17:20,939

numbers now don't really apply now when

338

00:17:27,890 --> 00:17:24,179

this was all put together 1961 and Frank

339

00:17:30,169 --> 00:17:27,900

Drake went around uh with this equation

340

00:17:32,390 --> 00:17:30,179

and lectured a lot and people were very

341

00:17:34,549 --> 00:17:32,400

interested in it and was great there

342

00:17:38,029 --> 00:17:34,559

this was the first time where science

343

00:17:40,490 --> 00:17:38,039

applied something like this

344

00:17:44,390 --> 00:17:40,500

um and and people were very interested

345

00:17:46,370 --> 00:17:44,400

in it and Frank Drake

346

00:17:51,830 --> 00:17:46,380

um now the the numbers changed over time

347

00:17:53,510 --> 00:17:51,840

but the general number that he would

348

00:17:56,529 --> 00:17:53,520

come up with

349

00:17:59,930 --> 00:17:56,539

was ten thousand

350

00:18:02,750 --> 00:17:59,940

ten thousand civilizations out there

351  
00:18:04,070 --> 00:18:02,760  
Advanced civilizations that could

352  
00:18:06,830 --> 00:18:04,080  
contact Earth

353  
00:18:10,370 --> 00:18:06,840  
right ten thousand

354  
00:18:12,289 --> 00:18:10,380  
um Frank and Carl Sagan worked on this

355  
00:18:16,730 --> 00:18:12,299  
uh quite a bit

356  
00:18:17,870 --> 00:18:16,740  
and as as they worked on this over over

357  
00:18:20,330 --> 00:18:17,880  
the years

358  
00:18:23,150 --> 00:18:20,340  
and and plugged in different numbers it

359  
00:18:25,549 --> 00:18:23,160  
would go down as far as 1 000

360  
00:18:28,310 --> 00:18:25,559  
civilizations and this is Frank and Carl

361  
00:18:32,270 --> 00:18:28,320  
working together but if they change the

362  
00:18:35,529 --> 00:18:32,280  
numbers around in the algorithm

363  
00:18:37,990 --> 00:18:35,539

sometimes they reached a number of 100

364

00:18:43,490 --> 00:18:38,000

million civilizations

365

00:18:45,710 --> 00:18:43,500

just in the Milky Way galaxy now

366

00:18:47,529 --> 00:18:45,720

um there's a couple of other things to

367

00:18:52,010 --> 00:18:47,539

think about here

368

00:18:53,690 --> 00:18:52,020

when we look at uh especially Los Alamos

369

00:18:54,890 --> 00:18:53,700

and what was going on in New Mexico at

370

00:18:57,230 --> 00:18:54,900

that time

371

00:18:59,210 --> 00:18:57,240

um you had uh Von Neumann uh another

372

00:19:01,789 --> 00:18:59,220

physicist from Hungary

373

00:19:04,190 --> 00:19:01,799

and they were all from Hungary by the

374

00:19:07,669 --> 00:19:04,200

way it seems like

375

00:19:11,690 --> 00:19:07,679

um one of the things that would have

376

00:19:14,750 --> 00:19:11,700

changed I think um Ed teller's and uh

377

00:19:17,210 --> 00:19:14,760

Enrico uh fermi's conversation

378

00:19:20,029 --> 00:19:17,220

is

379

00:19:21,350 --> 00:19:20,039

things like the Tic Tac

380

00:19:23,870 --> 00:19:21,360

all right

381

00:19:25,549 --> 00:19:23,880

and what I mean by that is Von Neumann

382

00:19:30,830 --> 00:19:25,559

uh talked about

383

00:19:33,430 --> 00:19:30,840

uh these self-replicating uh spaceships

384

00:19:38,029 --> 00:19:33,440

space probe Starships

385

00:19:43,150 --> 00:19:38,039

and that uh the the best way

386

00:19:47,330 --> 00:19:43,160

to go and possibly colonize or

387

00:19:49,610 --> 00:19:47,340

uh grab Knowledge from around the Milky

388

00:19:51,529 --> 00:19:49,620

Way and beyond that into other galaxies

389

00:19:55,070 --> 00:19:51,539

in the universe

390

00:19:57,049 --> 00:19:55,080

um by Mining and and building and you

391

00:19:59,150 --> 00:19:57,059

would have a a mother craft you would

392

00:20:01,070 --> 00:19:59,160

have these self-replicating spacecraft

393

00:20:05,750 --> 00:20:01,080

and

394

00:20:08,210 --> 00:20:05,760

exponential growth

395

00:20:12,350 --> 00:20:08,220

right that this would just blister out

396

00:20:14,510 --> 00:20:12,360

and very quickly uh because of the way

397

00:20:17,390 --> 00:20:14,520

that they would replicate and tap into

398

00:20:19,490 --> 00:20:17,400

asteroids and planets and and and build

399

00:20:22,029 --> 00:20:19,500

more of themselves

400

00:20:25,310 --> 00:20:22,039

um that uh an advanced civilization

401  
00:20:27,230 --> 00:20:25,320  
would uh take over the Milky Way in in

402  
00:20:28,850 --> 00:20:27,240  
very short order I'm talking about the

403  
00:20:31,370 --> 00:20:28,860  
Milky Way

404  
00:20:33,950 --> 00:20:31,380  
and in theory a self-replicating

405  
00:20:37,669 --> 00:20:33,960  
spacecraft you know could be sent to a

406  
00:20:39,950 --> 00:20:37,679  
neighboring planetary system where it

407  
00:20:41,990 --> 00:20:39,960  
would gather raw materials

408  
00:20:44,470 --> 00:20:42,000  
um you know from asteroids moons and gas

409  
00:20:49,310 --> 00:20:44,480  
giants Etc too

410  
00:20:51,590 --> 00:20:49,320  
to constantly create replicas of itself

411  
00:20:54,049 --> 00:20:51,600  
and and this would be ongoing and these

412  
00:20:57,169 --> 00:20:54,059  
replicas will be sent out again to other

413  
00:20:59,750 --> 00:20:57,179

planetary systems uh the original Parent

414

00:21:02,350 --> 00:20:59,760

probe could then pursue its primary

415

00:21:04,669 --> 00:21:02,360

purpose within the star system

416

00:21:06,710 --> 00:21:04,679

and uh they would have different

417

00:21:09,350 --> 00:21:06,720

missions apply to each one of these

418

00:21:11,690 --> 00:21:09,360

depending on what was being built maybe

419

00:21:14,090 --> 00:21:11,700

some are looking for water maybe some

420

00:21:18,169 --> 00:21:14,100

are looking for Life maybe some are you

421

00:21:21,770 --> 00:21:18,179

know studying DNA maybe uh looking for

422

00:21:23,750 --> 00:21:21,780

precious materials and raw materials and

423

00:21:26,690 --> 00:21:23,760

and and so forth

424

00:21:30,230 --> 00:21:26,700

and so this would continue and then you

425

00:21:31,970 --> 00:21:30,240

would have uh this next advancement of

426

00:21:34,250 --> 00:21:31,980

this which I think is another

427

00:21:38,810 --> 00:21:34,260

possibility here

428

00:21:40,130 --> 00:21:38,820

um which maybe some of these Von Neumann

429

00:21:43,970 --> 00:21:40,140

probes

430

00:21:45,770 --> 00:21:43,980

would carry say the seeds of life

431

00:21:48,649 --> 00:21:45,780

you know DNA

432

00:21:52,310 --> 00:21:48,659

maybe they store genetic patterns of of

433

00:21:55,330 --> 00:21:52,320

life forms their own life forms and from

434

00:21:59,210 --> 00:21:55,340

you know from their home world right and

435

00:22:01,730 --> 00:21:59,220

uh and and finding a habitable planet

436

00:22:03,110 --> 00:22:01,740

like Earth for instance

437

00:22:05,750 --> 00:22:03,120

boom

438

00:22:08,750 --> 00:22:05,760

right and and the seeds of life and then

439

00:22:10,970 --> 00:22:08,760

we continue out uh that way now is that

440

00:22:16,370 --> 00:22:10,980

a possibility for Earth absolutely it is

441

00:22:19,070 --> 00:22:16,380

and when we look at uh uh Earth itself

442

00:22:24,010 --> 00:22:19,080

and we look at the Historical

443

00:22:28,310 --> 00:22:24,020

uh parts of uh sightings over the years

444

00:22:30,110 --> 00:22:28,320

which not only go back Millennia but if

445

00:22:34,789 --> 00:22:30,120

we take

446

00:22:39,350 --> 00:22:34,799

um some of the text in in India or Iraq

447

00:22:43,909 --> 00:22:39,360

or Egypt uh certainly China and and

448

00:22:47,270 --> 00:22:43,919

Japan and uh even uh North Central South

449

00:22:50,570 --> 00:22:47,280

America and we look at the way that

450

00:22:53,090 --> 00:22:50,580

history has treated the subject it seems

451  
00:22:55,730 --> 00:22:53,100  
that these cultures around the world

452  
00:22:57,470 --> 00:22:55,740  
historically speaking talk about star

453  
00:22:58,730 --> 00:22:57,480  
beings you know talk about the heavens

454  
00:23:01,190 --> 00:22:58,740  
talk about the knowledge talking about

455  
00:23:03,350 --> 00:23:01,200  
things coming from the heavens and

456  
00:23:05,330 --> 00:23:03,360  
certainly talk about crafting machines

457  
00:23:08,470 --> 00:23:05,340  
and and so forth

458  
00:23:11,990 --> 00:23:08,480  
um that all the way through to today

459  
00:23:13,810 --> 00:23:12,000  
with the sightings that we have that are

460  
00:23:19,010 --> 00:23:13,820  
that are going on right now as I speak

461  
00:23:22,789 --> 00:23:19,020  
that it is this the Von Neumann concert

462  
00:23:25,250 --> 00:23:22,799  
except van Newman Neumann Newman

463  
00:23:29,210 --> 00:23:25,260

the vi Newman concept

464

00:23:32,090 --> 00:23:29,220

and I suggest that it may be and the

465

00:23:35,630 --> 00:23:32,100

other reason why this is such an

466

00:23:39,230 --> 00:23:35,640

important subject today versus where

467

00:23:41,510 --> 00:23:39,240

Enrico Fermi was with Ed teller sitting

468

00:23:45,529 --> 00:23:41,520

at that table in 1950 in the cafeteria

469

00:23:49,130 --> 00:23:45,539

they had no idea how quickly we would

470

00:23:52,190 --> 00:23:49,140

not only be on the moon that eight years

471

00:23:56,149 --> 00:23:52,200

later after that conversation in 1950

472

00:23:59,630 --> 00:23:56,159

1958 Sputnik 57 Sputnik Telstar the

473

00:24:03,770 --> 00:23:59,640

United States Russia the space race and

474

00:24:05,570 --> 00:24:03,780

uh how quickly we went and sent probes

475

00:24:08,149 --> 00:24:05,580

to the Moon before we sent man to the

476

00:24:11,289 --> 00:24:08,159

Moon we sent probes to the Moon uh how

477

00:24:15,950 --> 00:24:11,299

quickly we sent stuff to Mars

478

00:24:18,409 --> 00:24:15,960

and uh very quickly in the 1970s we had

479

00:24:20,390 --> 00:24:18,419

Voyager 1 and Voyager 2 and Pioneer 10

480

00:24:22,850 --> 00:24:20,400

and Pioneer 11.

481

00:24:25,250 --> 00:24:22,860

um sending them outside to an

482

00:24:28,370 --> 00:24:25,260

Interstellar situation outside

483

00:24:31,669 --> 00:24:28,380

of our solar system and if that's what

484

00:24:34,730 --> 00:24:31,679

we are doing surveyor and and everything

485

00:24:38,750 --> 00:24:34,740

else if that's what we were doing

486

00:24:40,370 --> 00:24:38,760

isn't that exactly what uh Von Von

487

00:24:44,690 --> 00:24:40,380

Newman was talking about

488

00:24:46,549 --> 00:24:44,700

and is is that what is happening now

489

00:24:47,990 --> 00:24:46,559

here today

490

00:24:52,070 --> 00:24:48,000

all right

491

00:24:53,649 --> 00:24:52,080

so if we look at uh start to pick all of

492

00:24:56,570 --> 00:24:53,659

this apart

493

00:24:59,450 --> 00:24:56,580

and and and look at the considerations

494

00:25:01,250 --> 00:24:59,460

of these different filters and the way

495

00:25:06,470 --> 00:25:01,260

to

496

00:25:10,190 --> 00:25:06,480

about where is everybody

497

00:25:12,770 --> 00:25:10,200

um it uh it's a different con text over

498

00:25:15,529 --> 00:25:12,780

the last four years but when we look at

499

00:25:20,630 --> 00:25:15,539

the the number one

500

00:25:22,610 --> 00:25:20,640

answer I think that applies directly to

501  
00:25:24,950 --> 00:25:22,620  
the Fermi paradox

502  
00:25:28,010 --> 00:25:24,960  
is that

503  
00:25:30,049 --> 00:25:28,020  
alien life is already here

504  
00:25:31,430 --> 00:25:30,059  
Enrico

505  
00:25:33,350 --> 00:25:31,440  
it's already here it's been here it's

506  
00:25:36,529 --> 00:25:33,360  
been here for a long time maybe we

507  
00:25:38,330 --> 00:25:36,539  
ourselves are alien and E.T

508  
00:25:40,850 --> 00:25:38,340  
and and

509  
00:25:44,630 --> 00:25:40,860  
that that that's it that's the the

510  
00:25:47,990 --> 00:25:44,640  
overall but I think that

511  
00:25:50,990 --> 00:25:48,000  
um I think that's the easiest most

512  
00:25:53,690 --> 00:25:51,000  
accepted answer from everybody

513  
00:25:55,850 --> 00:25:53,700

that what do you mean no no uh et's

514

00:25:58,549 --> 00:25:55,860

already here it's bad they've been here

515

00:26:00,890 --> 00:25:58,559

and they are visiting here now I think

516

00:26:02,810 --> 00:26:00,900

that that is overall we look at the

517

00:26:07,789 --> 00:26:02,820

recent polls

518

00:26:10,789 --> 00:26:07,799

um it's a 30 35 of Americans uh believe

519

00:26:13,490 --> 00:26:10,799

uh ET is here and is visiting this

520

00:26:16,970 --> 00:26:13,500

planet the number's a little lower over

521

00:26:20,330 --> 00:26:16,980

in Europe uh just under 30 percent

522

00:26:21,590 --> 00:26:20,340

and uh but that's a huge that's a huge

523

00:26:25,310 --> 00:26:21,600

part of the population

524

00:26:27,590 --> 00:26:25,320

so that is that is the one generally

525

00:26:30,710 --> 00:26:27,600

accepted answer

526

00:26:32,930 --> 00:26:30,720

um that that just negates and answers

527

00:26:36,590 --> 00:26:32,940

the question right uh where is everybody

528

00:26:40,549 --> 00:26:36,600

well uh everybody is already here now

529

00:26:44,810 --> 00:26:40,559

what part of this is acknowledged

530

00:26:46,730 --> 00:26:44,820

right because we have to look at that a

531

00:26:47,810 --> 00:26:46,740

couple of different ways just right

532

00:26:56,510 --> 00:26:47,820

there

533

00:26:57,890 --> 00:26:56,520

that ET is here well I I would say

534

00:27:03,830 --> 00:26:57,900

no

535

00:27:07,190 --> 00:27:03,840

that even the members of this community

536

00:27:09,110 --> 00:27:07,200

want where they want disclosure and and

537

00:27:11,149 --> 00:27:09,120

they want uh the governments in the

538

00:27:14,510 --> 00:27:11,159

military to step forward say ET is here

539

00:27:16,310 --> 00:27:14,520

they they need that right well that's

540

00:27:19,909 --> 00:27:16,320

what the rest of the world needs too as

541

00:27:22,850 --> 00:27:19,919

well so is there an acknowledged part of

542

00:27:25,190 --> 00:27:22,860

this and and we're getting close I mean

543

00:27:28,430 --> 00:27:25,200

because of the conversations that we are

544

00:27:31,610 --> 00:27:28,440

having today and the number of planets

545

00:27:33,590 --> 00:27:31,620

and the number of sightings and and the

546

00:27:36,049 --> 00:27:33,600

basic math and the size of the universe

547

00:27:38,390 --> 00:27:36,059

and the size of the Milky Way that we

548

00:27:40,310 --> 00:27:38,400

know that there is that that's it that

549

00:27:41,769 --> 00:27:40,320

the universe is teeming with life we

550

00:27:47,149 --> 00:27:41,779

know that

551

00:27:50,810 --> 00:27:47,159

but is there the definitive side

552

00:27:53,149 --> 00:27:50,820

okay so if we back this up

553

00:27:57,230 --> 00:27:53,159

my own sighting which I'm not going to

554

00:28:01,430 --> 00:27:57,240

go into I've had many but just the beer

555

00:28:04,250 --> 00:28:01,440

can alone for me is the same type of

556

00:28:06,409 --> 00:28:04,260

sighting that millions of people have

557

00:28:09,289 --> 00:28:06,419

had Millions

558

00:28:10,190 --> 00:28:09,299

I don't have it on film I know what I

559

00:28:12,169 --> 00:28:10,200

saw

560

00:28:23,690 --> 00:28:12,179

now

561

00:28:26,810 --> 00:28:23,700

idea what I saw

562

00:28:28,570 --> 00:28:26,820

and that goes with I don't have those

563

00:28:31,250 --> 00:28:28,580

answers I'm looking for those answers

564

00:28:35,810 --> 00:28:31,260

and everybody else

565

00:28:39,649 --> 00:28:35,820

is in the same position right now

566

00:28:41,510 --> 00:28:39,659

unless you are in the know where it can

567

00:28:44,450 --> 00:28:41,520

be acknowledged

568

00:28:46,789 --> 00:28:44,460

right so that's where we are what is

569

00:28:51,110 --> 00:28:46,799

acknowledged and what is unacknowledged

570

00:28:51,890 --> 00:28:51,120

and and where is the real proof for the

571

00:28:54,590 --> 00:28:51,900

world

572

00:28:57,890 --> 00:28:54,600

now the Insiders and and the the

573

00:29:00,830 --> 00:28:57,900

projects that are going on and and crash

574

00:29:03,950 --> 00:29:00,840

to retrievals and you know alien bodies

575

00:29:07,789 --> 00:29:03,960

and living aliens and dead aliens I I

576

00:29:10,430 --> 00:29:07,799

don't know about any of that nobody does

577

00:29:12,529 --> 00:29:10,440

all right that's where we are but I

578

00:29:15,590 --> 00:29:12,539

think in a general sense

579

00:29:17,590 --> 00:29:15,600

that question has been answered that we

580

00:29:21,169 --> 00:29:17,600

um are being visited every day

581

00:29:22,909 --> 00:29:21,179

uh we continue we will continue to be

582

00:29:26,149 --> 00:29:22,919

visited there's stuff going on in our

583

00:29:27,409 --> 00:29:26,159

skies and historically cultures around

584

00:29:30,710 --> 00:29:27,419

the world

585

00:29:33,470 --> 00:29:30,720

have talked about it have seen it

586

00:29:36,049 --> 00:29:33,480

all right now

587

00:29:39,830 --> 00:29:36,059

the next stage

588

00:29:42,230 --> 00:29:39,840

if we go from alien life is already here

589

00:29:43,430 --> 00:29:42,240

right it's already here that's the

590

00:29:46,070 --> 00:29:43,440

answer to it

591

00:29:48,130 --> 00:29:46,080

and then we go to the Other Extreme

592

00:29:52,070 --> 00:29:48,140

which is

593

00:29:54,049 --> 00:29:52,080

where it was until recently that

594

00:29:55,970 --> 00:29:54,059

extraterrestrial life

595

00:29:57,769 --> 00:29:55,980

is rare

596

00:30:00,769 --> 00:29:57,779

or non-existent

597

00:30:06,649 --> 00:30:00,779

now I have listened to physicists

598

00:30:09,950 --> 00:30:07,970

I'd say

599

00:30:12,409 --> 00:30:09,960

there's a good chance

600

00:30:13,909 --> 00:30:12,419

that we are all there is

601  
00:30:17,149 --> 00:30:13,919  
that life

602  
00:30:18,470 --> 00:30:17,159  
is so rare and so special and the

603  
00:30:22,450 --> 00:30:18,480  
circumstances

604  
00:30:26,330 --> 00:30:22,460  
uh behind how we got here with the moon

605  
00:30:28,610 --> 00:30:26,340  
and our distance from the Sun

606  
00:30:31,789 --> 00:30:28,620  
and and water and how everything

607  
00:30:36,230 --> 00:30:31,799  
happened that to replicate this

608  
00:30:38,210 --> 00:30:36,240  
is the rarest of the rarest thing and we

609  
00:30:41,690 --> 00:30:38,220  
may be all the risk

610  
00:30:44,330 --> 00:30:41,700  
and when I hear that

611  
00:30:46,669 --> 00:30:44,340  
right that extra trust your life is rare

612  
00:30:50,930 --> 00:30:46,679  
or non-existent

613  
00:30:53,470 --> 00:30:50,940

now this uh it makes me angry

614

00:30:57,830 --> 00:30:53,480

but it's not my opinion that matters

615

00:31:00,470 --> 00:30:57,840

these are scientific Minds very smart

616

00:31:03,590 --> 00:31:00,480

physicists and phds and astrophysicists

617

00:31:05,750 --> 00:31:03,600

and astronomers that that carry this

618

00:31:08,389 --> 00:31:05,760

mindset

619

00:31:12,470 --> 00:31:08,399

I think it's shrinking

620

00:31:14,870 --> 00:31:12,480

but now I heard it in uh uh I heard it

621

00:31:17,110 --> 00:31:14,880

in a conference

622

00:31:22,250 --> 00:31:17,120

um a live presentation

623

00:31:26,690 --> 00:31:22,260

uh a big deal conference four months ago

624

00:31:27,649 --> 00:31:26,700

I also saw it uh these comments like

625

00:31:29,750 --> 00:31:27,659

this

626  
00:31:32,930 --> 00:31:29,760  
on TV series

627  
00:31:39,049 --> 00:31:32,940  
TV series so yeah

628  
00:31:41,269 --> 00:31:39,059  
and then if we uh take it

629  
00:31:47,570 --> 00:31:41,279  
to another extreme

630  
00:31:52,789 --> 00:31:49,549  
life is rare

631  
00:31:54,950 --> 00:31:52,799  
but then there's intelligence

632  
00:31:57,769 --> 00:31:54,960  
so let's say

633  
00:32:00,230 --> 00:31:57,779  
life is not that rare

634  
00:32:03,169 --> 00:32:00,240  
there is life out there

635  
00:32:09,289 --> 00:32:03,179  
but what do we call life

636  
00:32:14,510 --> 00:32:10,730  
right

637  
00:32:17,570 --> 00:32:14,520  
what how rare is extraterrestrial

638  
00:32:24,590 --> 00:32:21,769

all right now that it uh it could be as

639

00:32:28,430 --> 00:32:24,600

simple as

640

00:32:30,710 --> 00:32:28,440

foreign they're working with fire now if

641

00:32:34,549 --> 00:32:30,720

if you fire is an important thing

642

00:32:38,510 --> 00:32:34,559

because let's say the oceans on your

643

00:32:40,610 --> 00:32:38,520

Europa right there may be life in those

644

00:32:42,049 --> 00:32:40,620

oceans right

645

00:32:45,110 --> 00:32:42,059

thanks

646

00:32:47,990 --> 00:32:45,120

things swimming around but without fire

647

00:32:50,570 --> 00:32:48,000

you're not going to move on to uh an

648

00:32:53,510 --> 00:32:50,580

industrial complex you're not going to

649

00:32:56,169 --> 00:32:53,520

be building things so but if you are

650

00:33:01,669 --> 00:32:56,179

above ground on terra firma

651  
00:33:05,389 --> 00:33:01,679  
and your your species gets as far as

652  
00:33:07,669 --> 00:33:05,399  
fire you will be dealing with the

653  
00:33:08,990 --> 00:33:07,679  
internet here very soon it didn't take

654  
00:33:13,730 --> 00:33:09,000  
us very long

655  
00:33:16,370 --> 00:33:13,740  
and uh and and exploring the universe

656  
00:33:19,690 --> 00:33:16,380  
and the Galaxy that you're in so

657  
00:33:23,570 --> 00:33:19,700  
extraterrestrial intelligence

658  
00:33:26,630 --> 00:33:23,580  
Beyond you know living in water

659  
00:33:29,210 --> 00:33:26,640  
Dolphins right very smart creatures but

660  
00:33:31,970 --> 00:33:29,220  
there's no fire there for dolphins

661  
00:33:34,310 --> 00:33:31,980  
but if you are above ground and and you

662  
00:33:36,470 --> 00:33:34,320  
have fire that's extraterrestrial

663  
00:33:41,029 --> 00:33:36,480

intelligence and they're saying that

664

00:33:45,289 --> 00:33:41,039

well that may be even rarer still or

665

00:33:51,110 --> 00:33:47,930

another filter

666

00:33:55,909 --> 00:33:51,120

for the Fermi paradox

667

00:33:58,549 --> 00:33:55,919

is that there is a periodic Extinction

668

00:34:00,350 --> 00:33:58,559

natural events

669

00:34:01,549 --> 00:34:00,360

asteroid

670

00:34:04,549 --> 00:34:01,559

right

671

00:34:06,830 --> 00:34:04,559

struck by a comment

672

00:34:10,550 --> 00:34:06,840

solar flare

673

00:34:13,010 --> 00:34:10,560

your star burps something acts up

674

00:34:16,070 --> 00:34:13,020

and incinerate your planet something

675

00:34:17,869 --> 00:34:16,080

that is is is something that you didn't

676  
00:34:24,109 --> 00:34:17,879  
cause

677  
00:34:29,930 --> 00:34:24,119  
now uh uh any Star freaking out

678  
00:34:34,070 --> 00:34:29,940  
and and changing it's if we had

679  
00:34:38,089 --> 00:34:34,080  
um anything uh Within

680  
00:34:41,149 --> 00:34:38,099  
50 light years of planet Earth and a

681  
00:34:43,790 --> 00:34:41,159  
star one Supernova we're done

682  
00:34:44,810 --> 00:34:43,800  
as far away as that would be we would be

683  
00:34:47,930 --> 00:34:44,820  
done

684  
00:34:50,030 --> 00:34:47,940  
so you know supernovas that that are

685  
00:34:51,950 --> 00:34:50,040  
happening around the universe and we see

686  
00:34:54,829 --> 00:34:51,960  
them all the time and we measure things

687  
00:34:58,010 --> 00:34:54,839  
with that distances and things we can

688  
00:34:59,230 --> 00:34:58,020

navigate the universe by supernovas

689

00:35:03,589 --> 00:34:59,240

um

690

00:35:06,170 --> 00:35:03,599

the the idea of that and what is

691

00:35:09,670 --> 00:35:06,180

devastated around it and how it affects

692

00:35:12,710 --> 00:35:09,680

vast amounts of space in the universe

693

00:35:15,550 --> 00:35:12,720

that's a natural event it doesn't have

694

00:35:20,510 --> 00:35:15,560

to be the planet it doesn't have to be

695

00:35:23,930 --> 00:35:20,520

uh tsunamis or whatever or even a local

696

00:35:25,730 --> 00:35:23,940

solar storm or an asteroid it could be

697

00:35:27,710 --> 00:35:25,740

something else like a supernova wiping

698

00:35:30,589 --> 00:35:27,720

out big chunks of the universe but that

699

00:35:34,069 --> 00:35:30,599

would be a natural event

700

00:35:36,109 --> 00:35:34,079

so even if you got a chance to to

701  
00:35:37,670 --> 00:35:36,119  
advance there could be something out of

702  
00:35:46,370 --> 00:35:37,680  
your control and that could happen to

703  
00:35:52,670 --> 00:35:50,510  
then you have this the intelligent alien

704  
00:35:54,349 --> 00:35:52,680  
species out there

705  
00:35:57,170 --> 00:35:54,359  
have not

706  
00:36:00,370 --> 00:35:57,180  
developed Advanced Technologies maybe

707  
00:36:04,010 --> 00:36:00,380  
there is something there that is just

708  
00:36:06,589 --> 00:36:04,020  
stopping the creative process there's

709  
00:36:09,050 --> 00:36:06,599  
just something wrong in the DNA there's

710  
00:36:11,690 --> 00:36:09,060  
something wrong with the brain there's

711  
00:36:15,650 --> 00:36:11,700  
that they they are just going to stay

712  
00:36:18,050 --> 00:36:15,660  
where they are and if we if we back up

713  
00:36:20,750 --> 00:36:18,060

you know 100 million years and and we

714

00:36:23,270 --> 00:36:20,760

look at uh planet Earth and we had uh we

715

00:36:26,089 --> 00:36:23,280

had life here but it was dinosaurs

716

00:36:31,609 --> 00:36:26,099

you know and and if

717

00:36:33,829 --> 00:36:31,619

if that asteroid hadn't struck Earth 65

718

00:36:37,670 --> 00:36:33,839

million years ago

719

00:36:39,790 --> 00:36:37,680

does that mean the dinosaur would the

720

00:36:42,650 --> 00:36:39,800

dinosaurs over that 65 million years

721

00:36:45,109 --> 00:36:42,660

have developed Advanced Technologies

722

00:36:47,870 --> 00:36:45,119

would they be building radio telescopes

723

00:36:49,370 --> 00:36:47,880

today would they have a company like

724

00:36:53,510 --> 00:36:49,380

SpaceX

725

00:36:57,410 --> 00:36:53,520

you know that that that's so how

726

00:37:03,670 --> 00:36:57,420

uh an intelligent species like again the

727

00:37:07,310 --> 00:37:03,680

octopus or or or Dolphins dogs cats

728

00:37:09,950 --> 00:37:07,320

monkeys Apes right is that an

729

00:37:13,010 --> 00:37:09,960

intelligent species or or how do we look

730

00:37:15,290 --> 00:37:13,020

at that and what does an intelligent

731

00:37:19,310 --> 00:37:15,300

species do if left alone

732

00:37:21,829 --> 00:37:19,320

for vast time would they develop

733

00:37:24,170 --> 00:37:21,839

Advanced Technologies that's another

734

00:37:26,990 --> 00:37:24,180

part of of this entire thing and the

735

00:37:29,450 --> 00:37:27,000

reason why that's so important

736

00:37:31,490 --> 00:37:29,460

is that chemistry is chemistry

737

00:37:32,690 --> 00:37:31,500

particles are particles

738

00:37:35,630 --> 00:37:32,700

right

739

00:37:37,790 --> 00:37:35,640

and they are only going to combine so

740

00:37:41,210 --> 00:37:37,800

many ways and I talk about that a lot

741

00:37:45,109 --> 00:37:41,220

but it's an important subject to address

742

00:37:46,849 --> 00:37:45,119

in that life in amino acids and DNA it's

743

00:37:49,250 --> 00:37:46,859

got to be everywhere how much of it is

744

00:37:49,970 --> 00:37:49,260

like us that develops like us probably a

745

00:37:53,630 --> 00:37:49,980

lot

746

00:37:55,190 --> 00:37:53,640

but that doesn't mean that that animal

747

00:37:56,630 --> 00:37:55,200

species

748

00:38:01,430 --> 00:37:56,640

are sentient

749

00:38:04,130 --> 00:38:01,440

but they don't have what it takes to

750

00:38:07,370 --> 00:38:04,140

eventually develop Advanced Technologies

751  
00:38:10,310 --> 00:38:07,380  
so how many planets out there have fish

752  
00:38:12,109 --> 00:38:10,320  
have have have life but that's as far as

753  
00:38:16,430 --> 00:38:12,119  
they they have trees they have grass

754  
00:38:19,010 --> 00:38:16,440  
right and and how far is it going to go

755  
00:38:20,690 --> 00:38:19,020  
that's an important part of this

756  
00:38:24,349 --> 00:38:20,700  
and then

757  
00:38:27,170 --> 00:38:24,359  
the next filter and I've gotten many uh

758  
00:38:33,530 --> 00:38:31,370  
is that is it the nature

759  
00:38:37,670 --> 00:38:33,540  
of us

760  
00:38:42,950 --> 00:38:41,030  
we seem to be doing a good job of that

761  
00:38:46,730 --> 00:38:42,960  
and I know that

762  
00:38:49,270 --> 00:38:46,740  
um uh many of us picture

763  
00:38:51,650 --> 00:38:49,280

Earth

764

00:38:53,210 --> 00:38:51,660

500 million years from now and how

765

00:38:57,050 --> 00:38:53,220

advanced and beautiful we're going to be

766

00:38:59,390 --> 00:38:57,060

and and and how many dimensions we are

767

00:39:03,050 --> 00:38:59,400

going to move into and we're going to be

768

00:39:08,170 --> 00:39:03,060

intelligent beings of of light and and

769

00:39:11,990 --> 00:39:08,180

stuff right okay to get to that point

770

00:39:14,750 --> 00:39:12,000

we can't destroy ourselves is it our

771

00:39:19,490 --> 00:39:14,760

nature to do that to burn up natural

772

00:39:22,310 --> 00:39:19,500

resources to overpopulate the planet and

773

00:39:23,870 --> 00:39:22,320

and and just run out of things and the

774

00:39:27,730 --> 00:39:23,880

next thing you know

775

00:39:30,230 --> 00:39:27,740

right that we just or War

776

00:39:33,349 --> 00:39:30,240

whatever it may be

777

00:39:36,890 --> 00:39:33,359

right create another disease

778

00:39:40,490 --> 00:39:36,900

that escapes a laboratory anything like

779

00:39:44,030 --> 00:39:40,500

that we're smart and then we create

780

00:39:47,690 --> 00:39:44,040

something that eventually destroys us

781

00:39:51,710 --> 00:39:47,700

is it is it that our nature to do that

782

00:39:54,950 --> 00:39:51,720

one of the things that I I see humans

783

00:39:57,370 --> 00:39:54,960

uh the evidence of this is that no

784

00:40:01,250 --> 00:39:57,380

matter what we take over piece of land

785

00:40:03,950 --> 00:40:01,260

and we build a city till it's you know a

786

00:40:05,870 --> 00:40:03,960

town into a city and we just just

787

00:40:08,150 --> 00:40:05,880

overtake everything

788

00:40:09,710 --> 00:40:08,160

says overtake overtake overtake overtake

789

00:40:12,230 --> 00:40:09,720

overtake overtake

790

00:40:13,970 --> 00:40:12,240

right and we just burn everything out

791

00:40:16,550 --> 00:40:13,980

and up and down

792

00:40:20,329 --> 00:40:16,560

including ourselves so is it just our

793

00:40:26,390 --> 00:40:23,630

now the other part

794

00:40:28,970 --> 00:40:26,400

there's a yin and yang

795

00:40:31,790 --> 00:40:28,980

is it the nature

796

00:40:34,490 --> 00:40:31,800

of intelligent life

797

00:40:36,410 --> 00:40:34,500

to destroy others

798

00:40:37,730 --> 00:40:36,420

uh stop right there and think about that

799

00:40:42,589 --> 00:40:37,740

for a second

800

00:40:45,230 --> 00:40:42,599

we certainly don't have any issues

801  
00:40:48,230 --> 00:40:45,240  
starting Wars

802  
00:40:50,150 --> 00:40:48,240  
you know and destruction

803  
00:40:53,750 --> 00:40:50,160  
Enrico Fermi

804  
00:40:57,109 --> 00:40:53,760  
teller right Oppenheimer

805  
00:41:03,829 --> 00:40:59,690  
atomic bombs

806  
00:41:06,650 --> 00:41:03,839  
and it's uh and and built for a purpose

807  
00:41:09,349 --> 00:41:06,660  
and built for a reason right and and

808  
00:41:13,790 --> 00:41:09,359  
tested not even knowing

809  
00:41:16,550 --> 00:41:13,800  
if it was there were physicists

810  
00:41:19,550 --> 00:41:16,560  
that feared

811  
00:41:21,829 --> 00:41:19,560  
that that first atomic test

812  
00:41:24,050 --> 00:41:21,839  
would cause a chain reaction in the

813  
00:41:25,849 --> 00:41:24,060

atmosphere

814

00:41:28,490 --> 00:41:25,859

that we couldn't stop in planet Earth

815

00:41:33,109 --> 00:41:28,500

will blow up that was actually a

816

00:41:36,710 --> 00:41:34,310

so

817

00:41:40,730 --> 00:41:36,720

is it the nature of us

818

00:41:45,530 --> 00:41:43,970

yeah so with other civilizations out

819

00:41:52,250 --> 00:41:45,540

there

820

00:41:53,750 --> 00:41:52,260

good-natured I want to uh to be nice and

821

00:41:56,930 --> 00:41:53,760

be kind

822

00:42:00,470 --> 00:41:56,940

you know and and and and not be evasive

823

00:42:06,109 --> 00:42:00,480

and invasive and and and Conquer and

824

00:42:12,109 --> 00:42:08,890

but there are probably

825

00:42:14,569 --> 00:42:12,119

intelligent civilizations out there that

826

00:42:16,670 --> 00:42:14,579

don't have good intentions

827

00:42:20,329 --> 00:42:16,680

and that may be part of the reason why

828

00:42:24,109 --> 00:42:20,339

we're not making friends with anybody

829

00:42:27,290 --> 00:42:24,119

at least out in the open

830

00:42:29,870 --> 00:42:27,300

because those that want to do that are

831

00:42:34,069 --> 00:42:29,880

being destroyed by another civilization

832

00:42:34,079 --> 00:42:38,089

then we have this

833

00:42:41,390 --> 00:42:39,890

when we talk about contact when we talk

834

00:42:45,109 --> 00:42:41,400

about seti

835

00:42:49,010 --> 00:42:45,119

and we talk about where we are today

836

00:42:53,390 --> 00:42:50,829

only broadcast

837

00:42:54,710 --> 00:42:53,400

detectable signals for a brief period of

838

00:42:57,650 --> 00:42:54,720

time

839

00:43:00,250 --> 00:42:57,660

because that's exactly what we've gone

840

00:43:05,210 --> 00:43:03,170

we here on Earth

841

00:43:08,030 --> 00:43:05,220

have only broadcast we talk about the

842

00:43:10,970 --> 00:43:08,040

movie contact it's a very important uh

843

00:43:13,130 --> 00:43:10,980

point to bring up we have only been

844

00:43:15,950 --> 00:43:13,140

Broadcasting

845

00:43:18,530 --> 00:43:15,960

here on Earth for about 150 years

846

00:43:22,089 --> 00:43:18,540

go back to 1880.

847

00:43:25,010 --> 00:43:22,099

Marconi radio signals Tesla

848

00:43:26,870 --> 00:43:25,020

and that was actually some of the

849

00:43:30,349 --> 00:43:26,880

biggest stuff and then what what

850

00:43:34,609 --> 00:43:30,359

happened in 1910 1920 1930 radio radio

851  
00:43:36,109 --> 00:43:34,619  
towers uh broadcasting huge amounts of

852  
00:43:39,589 --> 00:43:36,119  
Watts

853  
00:43:43,809 --> 00:43:39,599  
that that were blasting out into space

854  
00:43:49,730 --> 00:43:43,819  
so there's that and then slowly

855  
00:43:53,030 --> 00:43:49,740  
1970 comes around uh 1975 cable TV uh

856  
00:43:55,849 --> 00:43:53,040  
satellite signals uh broadcasting and

857  
00:44:00,470 --> 00:43:55,859  
instead of these huge antennas

858  
00:44:05,270 --> 00:44:00,480  
now we've got cable carrying TV signals

859  
00:44:08,630 --> 00:44:05,280  
and today radio signals are very weak

860  
00:44:11,390 --> 00:44:08,640  
here we are in 2022 what is being

861  
00:44:12,609 --> 00:44:11,400  
broadcast off of this planet now ah not

862  
00:44:15,950 --> 00:44:12,619  
much

863  
00:44:17,809 --> 00:44:15,960

and eventually it is all going to be

864

00:44:20,510 --> 00:44:17,819

Optical

865

00:44:22,849 --> 00:44:20,520

yeah you know and that's just the way

866

00:44:26,390 --> 00:44:22,859

that it is we're receiving our you're

867

00:44:30,410 --> 00:44:26,400

you're watching me right now on on a

868

00:44:32,210 --> 00:44:30,420

cable on a wire on the internet Wi-Fi is

869

00:44:34,730 --> 00:44:32,220

not reaching out into space it barely

870

00:44:39,349 --> 00:44:34,740

goes from room to room in your house

871

00:44:44,270 --> 00:44:39,359

so that's a 150 year window

872

00:44:46,490 --> 00:44:44,280

that's it 150 years so going out into

873

00:44:49,550 --> 00:44:46,500

space somebody would have to be

874

00:44:51,589 --> 00:44:49,560

listening and have the ability to listen

875

00:44:54,050 --> 00:44:51,599

to look for that

876  
00:44:56,390 --> 00:44:54,060  
over 150-year period anything before

877  
00:45:00,349 --> 00:44:56,400  
anything after they're going to miss it

878  
00:45:03,710 --> 00:45:00,359  
and we are in the the same position

879  
00:45:05,930 --> 00:45:03,720  
so we would have to be listening

880  
00:45:09,890 --> 00:45:05,940  
at the right moment at the right time

881  
00:45:14,150 --> 00:45:09,900  
from a star that is 50 million light

882  
00:45:17,270 --> 00:45:14,160  
years away 50 million so 50 million

883  
00:45:17,990 --> 00:45:17,280  
years it takes for those signals to get

884  
00:45:22,250 --> 00:45:18,000  
here

885  
00:45:26,510 --> 00:45:22,260  
and and it's just a 150 year pocket of

886  
00:45:28,370 --> 00:45:26,520  
information coming across the Milky Way

887  
00:45:30,410 --> 00:45:28,380  
let alone the universe

888  
00:45:32,569 --> 00:45:30,420

so we would have to be listening at that

889

00:45:36,770 --> 00:45:32,579

exact time and if we're not or if it

890

00:45:41,750 --> 00:45:39,290

so that's it and and the reason why that

891

00:45:43,849 --> 00:45:41,760

is such an obvious thing is that's the

892

00:45:46,970 --> 00:45:43,859

way we are doing it here

893

00:45:48,829 --> 00:45:46,980

so yeah seti is important

894

00:45:51,530 --> 00:45:48,839

and it does need to be looking at

895

00:45:54,230 --> 00:45:51,540

certain things I think that web uh doing

896

00:45:55,790 --> 00:45:54,240

what it's doing will tell seti this

897

00:45:58,609 --> 00:45:55,800

planet looks interesting let's let's

898

00:46:01,430 --> 00:45:58,619

focus over here and then we move all the

899

00:46:03,650 --> 00:46:01,440

radio antennas over and and point it at

900

00:46:07,309 --> 00:46:03,660

a specific Tsar system and maybe we can

901  
00:46:10,870 --> 00:46:07,319  
get lucky and pick up that pocket of 150

902  
00:46:13,730 --> 00:46:10,880  
years of information in a 50 million

903  
00:46:17,270 --> 00:46:13,740  
light-year stream

904  
00:46:20,270 --> 00:46:17,280  
but yeah but that's where we are and so

905  
00:46:23,569 --> 00:46:20,280  
when we look at the movie contact

906  
00:46:27,470 --> 00:46:23,579  
UM and that was Vega

907  
00:46:29,450 --> 00:46:27,480  
that was 1937 that was the uh 1936 or

908  
00:46:32,390 --> 00:46:29,460  
whatever the Olympic Games that was

909  
00:46:34,370 --> 00:46:32,400  
broadcast one of the first uh uh

910  
00:46:36,410 --> 00:46:34,380  
television broadcast that went out and

911  
00:46:39,470 --> 00:46:36,420  
that went out and and then turned around

912  
00:46:44,030 --> 00:46:39,480  
and got sent back to us that concept is

913  
00:46:45,890 --> 00:46:44,040

accurate that idea is accurate but it

914

00:46:48,530 --> 00:46:45,900

only worked and especially for the movie

915

00:46:49,370 --> 00:46:48,540

contact because Vega is not that far

916

00:46:50,990 --> 00:46:49,380

away

917

00:46:52,550 --> 00:46:51,000

right okay

918

00:46:55,730 --> 00:46:52,560

so there's that

919

00:46:59,210 --> 00:46:55,740

and then what if the signals that are

920

00:47:04,130 --> 00:47:02,390

are just too alien

921

00:47:06,109 --> 00:47:04,140

that we don't know what we're looking

922

00:47:09,470 --> 00:47:06,119

for

923

00:47:12,589 --> 00:47:09,480

so there may be tons of Life out there

924

00:47:14,630 --> 00:47:12,599

and they may be broadcasting but it's

925

00:47:16,970 --> 00:47:14,640

something that we can't see or we can't

926

00:47:18,950 --> 00:47:16,980

pick up we look at oh it's got to be the

927

00:47:21,710 --> 00:47:18,960

frequency of hydrogen that would be yeah

928

00:47:24,829 --> 00:47:21,720

okay all right all right and that uh E.T

929

00:47:26,870 --> 00:47:24,839

if he's smart uh they they know to

930

00:47:29,510 --> 00:47:26,880

broadcast on these certain frequencies

931

00:47:34,010 --> 00:47:29,520

and it's a universal thing and and okay

932

00:47:35,870 --> 00:47:34,020

all right that's fine but that broadcast

933

00:47:40,910 --> 00:47:35,880

um uh would have to be in the same time

934

00:47:43,910 --> 00:47:40,920

scale it would have to be uh in in

935

00:47:47,210 --> 00:47:43,920

something that can be received by us

936

00:47:51,290 --> 00:47:47,220

that was one of the biggest uh mistakes

937

00:47:55,849 --> 00:47:53,630

was that that was a TV carrier signal

938

00:48:00,050 --> 00:47:55,859

and that they buried the secondary

939

00:48:02,150 --> 00:48:00,060

signal alongside the carrier signal

940

00:48:05,329 --> 00:48:02,160

um E.T would have to understand what

941

00:48:08,510 --> 00:48:05,339

that is to unscramble it and see it

942

00:48:11,870 --> 00:48:08,520

right okay now were they just trading

943

00:48:14,270 --> 00:48:11,880

signals here's the thing

944

00:48:17,210 --> 00:48:14,280

when we talk about alphabets

945

00:48:20,089 --> 00:48:17,220

and languages and and something that is

946

00:48:22,069 --> 00:48:20,099

being sent back and forth they may be

947

00:48:23,630 --> 00:48:22,079

sending something that they think we

948

00:48:26,450 --> 00:48:23,640

should understand

949

00:48:29,990 --> 00:48:26,460

but we don't and we don't even see it

950

00:48:32,809 --> 00:48:30,000

it's so alien to us that we don't even

951  
00:48:34,670 --> 00:48:32,819  
know that it's there and it could be

952  
00:48:37,069 --> 00:48:34,680  
going on all over the place same thing

953  
00:48:38,329 --> 00:48:37,079  
with us going in the other direction you

954  
00:48:39,710 --> 00:48:38,339  
would have to understand what you're

955  
00:48:41,750 --> 00:48:39,720  
seeing

956  
00:48:45,470 --> 00:48:41,760  
um what you're hearing and what you are

957  
00:48:46,849 --> 00:48:45,480  
going for just to unscramble it and to

958  
00:48:49,490 --> 00:48:46,859  
know

959  
00:48:51,530 --> 00:48:49,500  
so maybe it's just something that we

960  
00:48:53,510 --> 00:48:51,540  
don't understand we don't see it's in a

961  
00:48:56,270 --> 00:48:53,520  
frequency we don't get it's in the color

962  
00:48:58,190 --> 00:48:56,280  
we don't get it's in a time scale maybe

963  
00:48:59,809 --> 00:48:58,200

they are just in a different

964

00:49:03,470 --> 00:48:59,819  
time

965

00:49:09,470 --> 00:49:05,630  
something to think about

966

00:49:11,450 --> 00:49:09,480  
now here's the other part uh moving on

967

00:49:14,329 --> 00:49:11,460  
Maybe

968

00:49:16,930 --> 00:49:14,339  
you know where is everybody maybe the

969

00:49:20,210 --> 00:49:16,940  
thought of Von Neumann and and

970

00:49:24,050 --> 00:49:20,220  
colonizing the Milky Way and and

971

00:49:28,569 --> 00:49:24,060  
occupying other star system Maybe

972

00:49:36,250 --> 00:49:32,690  
just maybe now we haven't gotten off of

973

00:49:39,950 --> 00:49:36,260  
this planet to go Interstellar we're not

974

00:49:42,470 --> 00:49:39,960  
colonizing uh another star system we're

975

00:49:44,809 --> 00:49:42,480  
trying to get to Mars we've barely got

976  
00:49:47,329 --> 00:49:44,819  
to the moon so we're not at that stage

977  
00:49:48,890 --> 00:49:47,339  
so maybe it's just not the norm even

978  
00:49:51,650 --> 00:49:48,900  
though we have the technology to

979  
00:49:53,630 --> 00:49:51,660  
broadcast in the sea and and and to go

980  
00:49:55,490 --> 00:49:53,640  
into deep space in the web and we are

981  
00:49:58,010 --> 00:49:55,500  
building rockets and we have satellites

982  
00:50:01,130 --> 00:49:58,020  
and we you know pretty you know got a

983  
00:50:05,450 --> 00:50:01,140  
pretty good grip but that doesn't mean

984  
00:50:10,430 --> 00:50:07,910  
right and a terraforming and and

985  
00:50:13,490 --> 00:50:10,440  
figuring all of that out no we're we're

986  
00:50:16,910 --> 00:50:13,500  
not there so just maybe it's not the

987  
00:50:19,250 --> 00:50:16,920  
norm and if you go to the other part of

988  
00:50:23,210 --> 00:50:19,260

that the other extreme

989

00:50:25,910 --> 00:50:23,220

uh with that is maybe species out there

990

00:50:31,250 --> 00:50:25,920

don't want to colonize maybe they want

991

00:50:36,650 --> 00:50:33,530

yeah

992

00:50:38,870 --> 00:50:36,660

now maybe

993

00:50:43,309 --> 00:50:38,880

alien species

994

00:50:49,609 --> 00:50:47,030

right and and they don't have a need to

995

00:50:51,410 --> 00:50:49,619

expand out and they're on the other side

996

00:50:54,049 --> 00:50:51,420

of the Milky Way and they've got a

997

00:50:56,030 --> 00:50:54,059

quarter of it dialed but but that's as

998

00:50:59,049 --> 00:50:56,040

far as they want to go

999

00:51:02,750 --> 00:50:59,059

you know there is a thing about uh uh

1000

00:51:06,710 --> 00:51:02,760

resources and expansion and if you've

1001  
00:51:09,530 --> 00:51:06,720  
got to you've got to have children to

1002  
00:51:12,589 --> 00:51:09,540  
expand and and everything else and you

1003  
00:51:16,309 --> 00:51:12,599  
have to have a rate of expansion to do

1004  
00:51:20,030 --> 00:51:16,319  
all of that before we talk about

1005  
00:51:23,510 --> 00:51:20,040  
you know cloning embryos and jars to go

1006  
00:51:27,109 --> 00:51:23,520  
and populate planets which may be some

1007  
00:51:28,790 --> 00:51:27,119  
of the ideas out there but just maybe

1008  
00:51:30,650 --> 00:51:28,800  
they've gone as far as they want to go

1009  
00:51:32,089 --> 00:51:30,660  
they don't they don't need to go any

1010  
00:51:35,150 --> 00:51:32,099  
further and it's another part of the

1011  
00:51:39,170 --> 00:51:35,160  
Milky Way that's another answer here

1012  
00:51:43,970 --> 00:51:39,180  
you know and and here's another part

1013  
00:51:47,210 --> 00:51:43,980

where we are looking at exoplanets but

1014

00:51:49,910 --> 00:51:47,220

but maybe

1015

00:51:52,370 --> 00:51:49,920

they just left those planets

1016

00:51:53,630 --> 00:51:52,380

we're going to leave Earth one day we're

1017

00:51:56,510 --> 00:51:53,640

going to leave Earth

1018

00:51:58,370 --> 00:51:56,520

uh We've discovered another exoplanet

1019

00:52:01,370 --> 00:51:58,380

today I think uh they call it the hell

1020

00:52:07,510 --> 00:52:01,380

planet right it does a 17 and a half

1021

00:52:10,089 --> 00:52:07,520

hour orbit it's year of its sun and uh

1022

00:52:12,349 --> 00:52:10,099

is there life on there no there's not

1023

00:52:13,970 --> 00:52:12,359

eventually that's going to be Earth

1024

00:52:16,250 --> 00:52:13,980

we're not going to be orbiting the Sun

1025

00:52:18,710 --> 00:52:16,260

in 17 hours but it's going to be a hell

1026  
00:52:21,170 --> 00:52:18,720  
Planet here and we have to leave before

1027  
00:52:24,470 --> 00:52:21,180  
then and that's if we survive asteroids

1028  
00:52:28,549 --> 00:52:24,480  
and diseases and natural disasters and

1029  
00:52:31,309 --> 00:52:28,559  
and solar storms and and Alien Invasion

1030  
00:52:33,109 --> 00:52:31,319  
we have to survive all of that and if we

1031  
00:52:35,630 --> 00:52:33,119  
get to that point

1032  
00:52:38,349 --> 00:52:35,640  
we will have to eventually leave this

1033  
00:52:41,390 --> 00:52:38,359  
planet too and leave it behind because

1034  
00:52:42,910 --> 00:52:41,400  
uh when when the Sun starts going

1035  
00:52:45,829 --> 00:52:42,920  
through its changes

1036  
00:52:49,250 --> 00:52:45,839  
immediately our atmosphere is going to

1037  
00:52:52,069 --> 00:52:49,260  
burn off and blow away the the uh the

1038  
00:52:53,930 --> 00:52:52,079

oceans are going to evaporate uh we're

1039

00:52:55,730 --> 00:52:53,940

going to have just molten lava and

1040

00:52:57,349 --> 00:52:55,740

volcanoes all over this planet the

1041

00:52:59,150 --> 00:52:57,359

surface temperature is going to be 2000

1042

00:53:00,349 --> 00:52:59,160

degrees we're not going to be here we're

1043

00:53:02,210 --> 00:53:00,359

going to be gone

1044

00:53:04,370 --> 00:53:02,220

so we're looking at all of these

1045

00:53:08,329 --> 00:53:04,380

exoplanets and maybe on a lot of these

1046

00:53:13,450 --> 00:53:12,109

right and uh and if we go to that

1047

00:53:16,849 --> 00:53:13,460

extreme

1048

00:53:18,950 --> 00:53:16,859

maybe after going through that we may do

1049

00:53:21,290 --> 00:53:18,960

the same thing maybe alien species out

1050

00:53:22,910 --> 00:53:21,300

there are just isolating themselves

1051  
00:53:24,230 --> 00:53:22,920  
from the outside world that they they

1052  
00:53:28,549 --> 00:53:24,240  
had enough

1053  
00:53:30,710 --> 00:53:28,559  
to go to the mountain and live by

1054  
00:53:33,770 --> 00:53:30,720  
themselves we do that here

1055  
00:53:36,470 --> 00:53:33,780  
so just maybe they don't want to reach

1056  
00:53:38,930 --> 00:53:36,480  
out they don't want to make contact

1057  
00:53:42,770 --> 00:53:38,940  
think of the movie

1058  
00:53:44,750 --> 00:53:42,780  
the movie Valerian and the planet moo

1059  
00:53:48,170 --> 00:53:44,760  
beautiful planet

1060  
00:53:50,750 --> 00:53:48,180  
amazing just got along with nature very

1061  
00:53:53,030 --> 00:53:50,760  
very Advanced species

1062  
00:53:54,470 --> 00:53:53,040  
they weren't on spaceships they weren't

1063  
00:53:55,970 --> 00:53:54,480

leaving the planet they didn't they

1064

00:53:57,410 --> 00:53:55,980

didn't care they were keeping to

1065

00:53:59,990 --> 00:53:57,420

themselves

1066

00:54:02,329 --> 00:54:00,000

it just may be that that could be a big

1067

00:54:05,150 --> 00:54:02,339

chunk of the universe too so something

1068

00:54:05,160 --> 00:54:08,290

and

1069

00:54:13,549 --> 00:54:10,370

here's another thing when we talk about

1070

00:54:15,589 --> 00:54:13,559

Dyson Pro uh Dyson spheres before I get

1071

00:54:17,030 --> 00:54:15,599

to the break I want to uh get this point

1072

00:54:20,230 --> 00:54:17,040

in

1073

00:54:23,690 --> 00:54:20,240

talk about Dyson fear uh Dyson spheres

1074

00:54:29,450 --> 00:54:23,700

and these technical signatures

1075

00:54:31,849 --> 00:54:29,460

well the amount of resources

1076  
00:54:35,030 --> 00:54:31,859  
on planet Earth

1077  
00:54:38,089 --> 00:54:35,040  
to build a Starship

1078  
00:54:41,930 --> 00:54:38,099  
out in space and then and to to head out

1079  
00:54:45,650 --> 00:54:41,940  
or to build a Dyson Sphere to to tap

1080  
00:54:48,589 --> 00:54:45,660  
into our sun and and rapper where where

1081  
00:54:50,990 --> 00:54:48,599  
do where does all of those materials

1082  
00:54:55,730 --> 00:54:51,000  
come from

1083  
00:54:57,770 --> 00:54:55,740  
I would say that there's a lack of

1084  
00:54:59,390 --> 00:54:57,780  
resources for something like that and

1085  
00:55:00,770 --> 00:54:59,400  
just in Our Stars said well yeah okay

1086  
00:55:02,990 --> 00:55:00,780  
we've got asteroids we'll go to the

1087  
00:55:06,170 --> 00:55:03,000  
asteroid belt that's all got to get

1088  
00:55:09,170 --> 00:55:06,180

tapped into and it's a large amount

1089

00:55:10,670 --> 00:55:09,180

we we look at uh the asteroid belt we

1090

00:55:14,930 --> 00:55:10,680

would have to

1091

00:55:17,270 --> 00:55:14,940

uh you know tap into Jupiter

1092

00:55:19,329 --> 00:55:17,280

for everything that's there to go and

1093

00:55:21,109 --> 00:55:19,339

build a Dyson Sphere

1094

00:55:23,510 --> 00:55:21,119

so

1095

00:55:27,470 --> 00:55:23,520

um to look out

1096

00:55:30,049 --> 00:55:27,480

at uh now I'm not trying to Discount the

1097

00:55:34,069 --> 00:55:30,059

possibilities of all of this but when we

1098

00:55:37,910 --> 00:55:34,079

talk about why isn't uh Vin Neumann and

1099

00:55:40,730 --> 00:55:37,920

why uh why why don't we see uh E.T

1100

00:55:44,390 --> 00:55:40,740

taking over uh the Milky Way we should

1101  
00:55:46,730 --> 00:55:44,400  
see this exponentially just take maybe

1102  
00:55:48,650 --> 00:55:46,740  
there's just a a lack of resources

1103  
00:55:51,609 --> 00:55:48,660  
needed to physically spread throughout

1104  
00:55:55,930 --> 00:55:51,619  
the Galaxy like that and that's another

1105  
00:55:59,750 --> 00:55:55,940  
I have often wondered and argued about

1106  
00:56:02,750 --> 00:55:59,760  
just that very point now it sounds good

1107  
00:56:05,510 --> 00:56:02,760  
on paper and it works in the math and if

1108  
00:56:07,730 --> 00:56:05,520  
this happens in one uh plus two is three

1109  
00:56:10,250 --> 00:56:07,740  
and then it's six and then it's 12 and

1110  
00:56:12,290 --> 00:56:10,260  
the next thing you know in in a hundred

1111  
00:56:16,309 --> 00:56:12,300  
years they've taken over a million

1112  
00:56:19,430 --> 00:56:16,319  
planets no it it it it takes people and

1113  
00:56:21,049 --> 00:56:19,440

resources to do all of that so the

1114

00:56:23,049 --> 00:56:21,059

reason why we're not seeing it is

1115

00:56:26,930 --> 00:56:23,059

because maybe

1116

00:56:29,210 --> 00:56:26,940

there isn't the grand ability to

1117

00:56:32,270 --> 00:56:29,220

replicate and tap into all of these

1118

00:56:34,309 --> 00:56:32,280

resources to get this done is it's a

1119

00:56:35,930 --> 00:56:34,319

physically challenging and logistical

1120

00:56:37,970 --> 00:56:35,940

nightmare

1121

00:56:40,790 --> 00:56:37,980

that's right let's take our break right

1122

00:56:44,809 --> 00:56:40,800

here this is

1123

00:56:48,170 --> 00:56:44,819

my two hour special on

1124

00:56:50,030 --> 00:56:48,180

the Fermi Paradox I'll be right back

1125

00:56:52,370 --> 00:56:50,040

this is Jimmy Church of Fade to Black

1126

00:56:54,650 --> 00:56:52,380

please visit all of our sponsors we're

1127

00:56:56,390 --> 00:56:54,660

taking a quick break here all of the

1128

00:56:59,510 --> 00:56:56,400

links are below

1129

00:57:01,790 --> 00:56:59,520

and we'll be right back

1130

00:57:02,770 --> 00:57:01,800

check out Billy Carson's Forbidden

1131

00:57:04,870 --> 00:57:02,780

Knowledge

1132

00:57:06,829 --> 00:57:04,880

forbiddenknowledge.com or

1133

00:57:10,790 --> 00:57:06,839

forbiddenknowledge.tv where you can get

1134

00:57:13,250 --> 00:57:10,800

access to over 6 000 videos movies TV

1135

00:57:15,230 --> 00:57:13,260

series exclusive documentaries like the

1136

00:57:16,750 --> 00:57:15,240

Black Knight satellite you can do it all

1137

00:57:20,630 --> 00:57:16,760

for just

1138

00:57:23,210 --> 00:57:20,640

7.77 per month for 77 dollars per year

1139

00:57:24,950 --> 00:57:23,220

after the three-day trial which is also

1140

00:57:27,710 --> 00:57:24,960

totally free to check out it's all

1141

00:57:29,349 --> 00:57:27,720

simple to do Billy Carson is the best

1142

00:57:31,010 --> 00:57:29,359

it's simple

1143

00:57:33,770 --> 00:57:31,020

forbiddenknowledge.com or

1144

00:57:37,970 --> 00:57:33,780

forbiddenknowledge dot TV that's the

1145

00:57:42,349 --> 00:57:39,950

I will be hosting an emceeing the

1146

00:57:44,930 --> 00:57:42,359

conscious life Expo this February 10th

1147

00:57:47,870 --> 00:57:44,940

through the 13th at The Lax Hilton right

1148

00:57:50,030 --> 00:57:47,880

here in Los Angeles California 200

1149

00:57:52,069 --> 00:57:50,040

speakers including Linda Moulton Howe

1150

00:57:54,710 --> 00:57:52,079

Bashar Deborah King George Nori Daniel

1151  
00:57:58,549 --> 00:57:54,720  
Sheehan Scott Walter Johnstone and David

1152  
00:58:02,630 --> 00:57:58,559  
wolf over 200 vendors special events

1153  
00:58:04,970 --> 00:58:02,640  
this is the biggest event of its kind on

1154  
00:58:07,450 --> 00:58:04,980  
planet Earth you've got to come and hang

1155  
00:58:09,410 --> 00:58:07,460  
out with all of us tickets and info at

1156  
00:58:11,030 --> 00:58:09,420  
consciouslifeexpo.com the links are

1157  
00:58:14,210 --> 00:58:11,040  
below

1158  
00:58:17,390 --> 00:58:14,220  
on Saturday April 1st that's right April

1159  
00:58:19,549 --> 00:58:17,400  
Fool's Day 2023 I will be hosting the

1160  
00:58:23,089 --> 00:58:19,559  
peripod festival at the Hyatt Regency

1161  
00:58:25,549 --> 00:58:23,099  
right here in Valencia California it's a

1162  
00:58:28,609 --> 00:58:25,559  
live one-day podcast Awards it's a film

1163  
00:58:30,710 --> 00:58:28,619

festival it's a full-on media event

1164

00:58:32,510 --> 00:58:30,720

we're going to have Sky watching it's

1165

00:58:35,270 --> 00:58:32,520

going to be a Lifetime Achievement Award

1166

00:58:37,250 --> 00:58:35,280

presented to Linda Moulton Howe right

1167

00:58:39,349 --> 00:58:37,260

now you can submit your podcast your

1168

00:58:42,049 --> 00:58:39,359

film your TV series any of your

1169

00:58:44,030 --> 00:58:42,059

paranormal media for consideration you

1170

00:58:47,230 --> 00:58:44,040

can do all of that on the links below

1171

00:58:49,130 --> 00:58:47,240

for info and tickets go to

1172

00:58:52,210 --> 00:58:49,140

parapodfilmfest.com that's

1173

00:58:57,890 --> 00:58:56,270

April 7th through the 14th 2023 I'll be

1174

00:59:00,829 --> 00:58:57,900

hosting and presenting on the hidden

1175

00:59:03,470 --> 00:59:00,839

secrets seminar at Sea cruise from Los

1176  
00:59:05,809 --> 00:59:03,480  
Angeles to the Mexican Riviera I'm the

1177  
00:59:08,450 --> 00:59:05,819  
Navigator of the Seas that's right up

1178  
00:59:10,130 --> 00:59:08,460  
top a giant water slide you've got to

1179  
00:59:11,990 --> 00:59:10,140  
check out the Navigator of the Seas it's

1180  
00:59:14,390 --> 00:59:12,000  
amazing we've got Scott Walter Adam

1181  
00:59:17,270 --> 00:59:14,400  
Apollo Nick Pope Brad Olson Vivian

1182  
00:59:19,549 --> 00:59:17,280  
Chauvet Jason sherka Robert Grant Reuben

1183  
00:59:21,890 --> 00:59:19,559  
Langdon and another 12 amazing speakers

1184  
00:59:23,289 --> 00:59:21,900  
and presenters it's all simple to do

1185  
00:59:25,789 --> 00:59:23,299  
just visit

1186  
00:59:29,450 --> 00:59:25,799  
divinetravels.com forward slash hidden

1187  
00:59:31,730 --> 00:59:29,460  
secrets 2023 you know you want to go on

1188  
00:59:35,150 --> 00:59:31,740

a cruise with me

1189

00:59:37,970 --> 00:59:35,160

River Moon coffee makers of the Fade to

1190

00:59:39,849 --> 00:59:37,980

Black blend truly the best coffee on

1191

00:59:42,109 --> 00:59:39,859

planet Earth just visit

1192

00:59:43,910 --> 00:59:42,119

rivermoonwellness.com or or their Amazon

1193

00:59:45,349 --> 00:59:43,920

store it's all simple to do you can

1194

00:59:47,450 --> 00:59:45,359

check out the Fade to Black blend the

1195

00:59:50,089 --> 00:59:47,460

game changer Blend or any of their black

1196

00:59:53,870 --> 00:59:50,099

moon wellness products it's the only

1197

01:00:01,309 --> 00:59:53,880

coffee I drink it is the best and it's

1198

01:00:06,770 --> 01:00:03,410

all right Welcome Back Fade to Black

1199

01:00:11,089 --> 01:00:06,780

tonight I'm doing uh a special on the

1200

01:00:14,390 --> 01:00:11,099

Fermi Paradox and uh the the Fermi

1201

01:00:18,049 --> 01:00:14,400

Paradox itself I'll do a little bit of

1202

01:00:22,970 --> 01:00:18,059

a recap here uh the Fermi paradox

1203

01:00:27,470 --> 01:00:22,980

uh comes from a conversation in 1950 at

1204

01:00:30,470 --> 01:00:27,480

Los Alamos and uh a group of physicists

1205

01:00:33,230 --> 01:00:30,480

uh Enrico Fermi was one of them at at

1206

01:00:37,130 --> 01:00:33,240

Edward Teller was at the table too they

1207

01:00:39,829 --> 01:00:37,140

were talking about uh flying saucers and

1208

01:00:43,970 --> 01:00:39,839

what was going on around the country at

1209

01:00:46,609 --> 01:00:43,980

that time there was nothing uh but uh

1210

01:00:48,289 --> 01:00:46,619

UFOs being seen in the skies and it was

1211

01:00:51,410 --> 01:00:48,299

everywhere it was in the media it was

1212

01:00:54,170 --> 01:00:51,420

with the military radio programs movies

1213

01:00:55,730 --> 01:00:54,180

started to come out about this and there

1214

01:00:58,010 --> 01:00:55,740

was a general hysteria around the

1215

01:00:59,930 --> 01:00:58,020

country at that time and so physicists

1216

01:01:01,370 --> 01:00:59,940

are going to do what they do they

1217

01:01:03,710 --> 01:01:01,380

started talking about the size of the

1218

01:01:06,710 --> 01:01:03,720

universe and how many stars were out

1219

01:01:09,770 --> 01:01:06,720

there and and and how many would have

1220

01:01:12,530 --> 01:01:09,780

planets and then if the if the Milky Way

1221

01:01:14,270 --> 01:01:12,540

was so big then we're looking at you

1222

01:01:17,150 --> 01:01:14,280

know potentially millions of

1223

01:01:19,430 --> 01:01:17,160

civilizations and and and that's where

1224

01:01:21,829 --> 01:01:19,440

they took the conversation and and then

1225

01:01:25,490 --> 01:01:21,839

Rico started calculating

1226  
01:01:28,010 --> 01:01:25,500  
in his in his head and then just blurted

1227  
01:01:30,170 --> 01:01:28,020  
out well where is everybody then

1228  
01:01:34,190 --> 01:01:30,180  
if that's the case where is everybody

1229  
01:01:35,150 --> 01:01:34,200  
and it was said in a context that we

1230  
01:01:39,349 --> 01:01:35,160  
should

1231  
01:01:41,569 --> 01:01:39,359  
have made friends right uh that that E.T

1232  
01:01:45,710 --> 01:01:41,579  
should be visiting us all the time and

1233  
01:01:47,630 --> 01:01:45,720  
and uh we should have relationships and

1234  
01:01:48,650 --> 01:01:47,640  
and everything else not seeing stuff in

1235  
01:01:52,190 --> 01:01:48,660  
the skies

1236  
01:01:53,690 --> 01:01:52,200  
uh but it it should be different there

1237  
01:01:55,549 --> 01:01:53,700  
should be a community here an

1238  
01:02:00,349 --> 01:01:55,559

Interstellar community so where is

1239

01:02:04,069 --> 01:02:00,359

everybody and that is the Fermi paradox

1240

01:02:05,690 --> 01:02:04,079

for me Paradox has been discussed uh one

1241

01:02:09,049 --> 01:02:05,700

of the things I mean over and over again

1242

01:02:11,569 --> 01:02:09,059

and I love it when two great minds sit

1243

01:02:13,250 --> 01:02:11,579

down and and start talking couple of

1244

01:02:15,829 --> 01:02:13,260

physicists couple of scientists couple

1245

01:02:18,910 --> 01:02:15,839

of philosophers whatever and eventually

1246

01:02:23,210 --> 01:02:18,920

they will swing the conversation around

1247

01:02:24,890 --> 01:02:23,220

uh to the Fermi Paradox because

1248

01:02:29,569 --> 01:02:24,900

um it's a it's a it's a thought

1249

01:02:32,510 --> 01:02:29,579

experiment that is endless

1250

01:02:36,230 --> 01:02:32,520

it's absolutely infinite

1251

01:02:39,230 --> 01:02:36,240

and once you start to

1252

01:02:43,569 --> 01:02:39,240

um uh have an idea and and to get a

1253

01:02:46,609 --> 01:02:43,579

thought out you are thinking about

1254

01:02:49,130 --> 01:02:46,619

one civilization

1255

01:02:50,690 --> 01:02:49,140

right and and just one thing but there

1256

01:02:55,309 --> 01:02:50,700

has to be

1257

01:02:57,289 --> 01:02:55,319

so many different various types of life

1258

01:02:59,930 --> 01:02:57,299

forms out there

1259

01:03:03,770 --> 01:02:59,940

um that live in different frequencies

1260

01:03:07,250 --> 01:03:03,780

and time scales and and uh different

1261

01:03:08,630 --> 01:03:07,260

ideas of the way that they want to live

1262

01:03:10,910 --> 01:03:08,640

life

1263

01:03:13,130 --> 01:03:10,920

um it varies so much that the Fermi

1264

01:03:15,890 --> 01:03:13,140

Paradox then just expands and expands

1265

01:03:17,809 --> 01:03:15,900

and expands and expands I've got so many

1266

01:03:19,910 --> 01:03:17,819

books on the Fermi Paradox that break

1267

01:03:23,630 --> 01:03:19,920

this down

1268

01:03:27,770 --> 01:03:23,640

um in into hundreds of different filters

1269

01:03:31,250 --> 01:03:27,780

where they can go in uh each author or

1270

01:03:34,430 --> 01:03:31,260

scientist thinker can go into any

1271

01:03:36,530 --> 01:03:34,440

direction and just just go with that and

1272

01:03:38,390 --> 01:03:36,540

Isaac Arthur does it really really well

1273

01:03:41,450 --> 01:03:38,400

he breaks it down all the time and you

1274

01:03:43,630 --> 01:03:41,460

can go just in One Direction and and

1275

01:03:46,130 --> 01:03:43,640

spend so much time

1276

01:03:47,569 --> 01:03:46,140

expanding on that filter and expanding

1277

01:03:50,510 --> 01:03:47,579

on that filter and expanding on that

1278

01:03:54,130 --> 01:03:50,520

filter I just laid out 15 or 20 filters

1279

01:03:58,849 --> 01:03:54,140

right now off the top of my head just

1280

01:04:01,569 --> 01:03:58,859

setting up the show tonight and each one

1281

01:04:05,809 --> 01:04:01,579

each one is a whole show in of itself

1282

01:04:07,970 --> 01:04:05,819

every single one and I just uh talked

1283

01:04:10,190 --> 01:04:07,980

about so that's the Fermi Paradox in a

1284

01:04:13,670 --> 01:04:10,200

nutshell and one of the things that I

1285

01:04:16,250 --> 01:04:13,680

had mentioned earlier which is a very

1286

01:04:17,630 --> 01:04:16,260

important concept to understand and to

1287

01:04:20,270 --> 01:04:17,640

grasp

1288

01:04:22,370 --> 01:04:20,280

here on Earth you know how does a

1289

01:04:23,930 --> 01:04:22,380

civilization grow where do they get to a

1290

01:04:27,010 --> 01:04:23,940

technical level where do they go from

1291

01:04:29,809 --> 01:04:27,020

the wheel you know to to space travel

1292

01:04:32,569 --> 01:04:29,819

and and and what is involved in the

1293

01:04:37,490 --> 01:04:32,579

middle of all of that in in in that

1294

01:04:39,530 --> 01:04:37,500

growth and and to physically Advance uh

1295

01:04:42,589 --> 01:04:39,540

on a technical scale well you're going

1296

01:04:45,530 --> 01:04:42,599

to go through certain things and we are

1297

01:04:48,950 --> 01:04:45,540

assuming that other life out there must

1298

01:04:53,210 --> 01:04:48,960

do it pretty much the same way and that

1299

01:04:56,390 --> 01:04:53,220

is you're going to go from fire to

1300

01:04:59,750 --> 01:04:56,400

eventually get to electricity

1301  
01:05:03,470 --> 01:04:59,760  
um uh electromagnetism and radio waves

1302  
01:05:08,030 --> 01:05:03,480  
and and and and things in transmission

1303  
01:05:10,549 --> 01:05:08,040  
uh telephones speakers stereo systems

1304  
01:05:13,789 --> 01:05:10,559  
audio music and then digital

1305  
01:05:16,670 --> 01:05:13,799  
transmissions and so for us we went

1306  
01:05:18,589 --> 01:05:16,680  
through that radio phase the television

1307  
01:05:22,190 --> 01:05:18,599  
signal phase

1308  
01:05:26,270 --> 01:05:22,200  
uh for about a hundred years we're

1309  
01:05:28,549 --> 01:05:26,280  
phasing out of it very very very quickly

1310  
01:05:32,150 --> 01:05:28,559  
but let's stay right there for a second

1311  
01:05:36,109 --> 01:05:32,160  
so here we are in 2022.

1312  
01:05:38,089 --> 01:05:36,119  
we've had the ability

1313  
01:05:42,230 --> 01:05:38,099

the ability

1314

01:05:44,809 --> 01:05:42,240

to detect and to listen to radio and

1315

01:05:45,829 --> 01:05:44,819

television signals for only a hundred

1316

01:05:49,609 --> 01:05:45,839

years

1317

01:05:52,730 --> 01:05:49,619

that's it so another distant

1318

01:05:55,010 --> 01:05:52,740

civilization out there that is at our

1319

01:05:57,589 --> 01:05:55,020

level that is broadcasting these signals

1320

01:05:58,970 --> 01:05:57,599

if they did it a thousand years before

1321

01:06:06,589 --> 01:05:58,980

us

1322

01:06:08,630 --> 01:06:06,599

we weren't around to detect it

1323

01:06:10,510 --> 01:06:08,640

we didn't have the ability what if

1324

01:06:14,390 --> 01:06:10,520

they're a million years in front of us

1325

01:06:19,069 --> 01:06:16,089

excited

1326

01:06:21,950 --> 01:06:19,079

you only have that ability to detect it

1327

01:06:24,410 --> 01:06:21,960

for a very short period of time and

1328

01:06:26,870 --> 01:06:24,420

that's when they are being broadcast it

1329

01:06:29,809 --> 01:06:26,880

is such a fundamental part of all of

1330

01:06:31,430 --> 01:06:29,819

this about where are they right well we

1331

01:06:33,890 --> 01:06:31,440

have to be at the right place at the

1332

01:06:36,890 --> 01:06:33,900

right time pointing at the right start

1333

01:06:38,650 --> 01:06:36,900

at the right moment to magically detect

1334

01:06:42,650 --> 01:06:38,660

something

1335

01:06:45,410 --> 01:06:42,660

for another planet out there to look at

1336

01:06:48,710 --> 01:06:45,420

ours so we're we're looking the other

1337

01:06:50,270 --> 01:06:48,720

way in uh with the web telescope and

1338

01:06:52,910 --> 01:06:50,280

we're looking at something that's you

1339

01:06:53,870 --> 01:06:52,920

know I've whatever 10 10 light years

1340

01:06:56,930 --> 01:06:53,880

away

1341

01:06:59,089 --> 01:06:56,940

all right that that's really close 20

1342

01:07:01,609 --> 01:06:59,099

light years away 30 light years away 40

1343

01:07:04,670 --> 01:07:01,619

light years away that would be a miracle

1344

01:07:07,730 --> 01:07:04,680

to find life or a planet that could

1345

01:07:09,829 --> 01:07:07,740

support life now if we go

1346

01:07:11,690 --> 01:07:09,839

and and we find something that is a

1347

01:07:14,089 --> 01:07:11,700

thousand light years away

1348

01:07:16,789 --> 01:07:14,099

a thousand light years that's how long

1349

01:07:20,809 --> 01:07:16,799

light takes to get here a thousand years

1350

01:07:24,410 --> 01:07:20,819

and we detected techno signature does

1351

01:07:27,770 --> 01:07:24,420

that mean that there is still life there

1352

01:07:31,549 --> 01:07:27,780

by the time if think about this it would

1353

01:07:34,250 --> 01:07:31,559

be the same thing in looking at Earth so

1354

01:07:36,230 --> 01:07:34,260

you spot Earth and you're a thousand

1355

01:07:38,630 --> 01:07:36,240

light years away and you spot Earth and

1356

01:07:41,390 --> 01:07:38,640

you're looking at Earth a thousand years

1357

01:07:43,789 --> 01:07:41,400

ago do you get a techno signature

1358

01:07:47,930 --> 01:07:43,799

what do you see now you're going to have

1359

01:07:51,829 --> 01:07:47,940

uh carbon carbon dioxide you're going to

1360

01:07:54,049 --> 01:07:51,839

have hydrogen and nitrogen oxygen uh

1361

01:07:56,630 --> 01:07:54,059

water water vapor

1362

01:07:58,849 --> 01:07:56,640

you can have certain and and they may

1363

01:08:01,609 --> 01:07:58,859

whoa whoa that looks pretty good but do

1364

01:08:04,370 --> 01:08:01,619

they see cities lighting up at night do

1365

01:08:07,190 --> 01:08:04,380

they see a techno signature do they see

1366

01:08:10,370 --> 01:08:07,200

the Industrial Revolution none of they

1367

01:08:13,309 --> 01:08:10,380

see pollution they don't see any of that

1368

01:08:15,230 --> 01:08:13,319

all right so they would have to be

1369

01:08:17,150 --> 01:08:15,240

pointing at Earth at the right time to

1370

01:08:19,189 --> 01:08:17,160

pick something up and it's the same

1371

01:08:23,269 --> 01:08:19,199

thing going in the other direction

1372

01:08:25,309 --> 01:08:23,279

so when we when we look at Earth and we

1373

01:08:26,870 --> 01:08:25,319

think about all of this oh by the way um

1374

01:08:29,809 --> 01:08:26,880

at this point

1375

01:08:32,809 --> 01:08:29,819

um uh before I wrap this up I do want to

1376

01:08:34,370 --> 01:08:32,819

take the opportunity to uh look at the

1377

01:08:36,709 --> 01:08:34,380

chat room and address some of your

1378

01:08:38,390 --> 01:08:36,719

questions and some of your thoughts and

1379

01:08:40,189 --> 01:08:38,400

and I'll try to squeeze that in before

1380

01:08:42,470 --> 01:08:40,199

the end of the show and if you do have a

1381

01:08:44,990 --> 01:08:42,480

question I just put it in all caps from

1382

01:08:48,229 --> 01:08:45,000

this point out I did notice that there

1383

01:08:50,809 --> 01:08:48,239

were literally uh I think 2 000 comments

1384

01:08:52,970 --> 01:08:50,819

already in the chat room tonight so I I

1385

01:08:54,829 --> 01:08:52,980

can't go backwards but I can I can

1386

01:08:56,209 --> 01:08:54,839

certainly go forwards from here I meant

1387

01:09:00,050 --> 01:08:56,219

to mention that at the top of the show

1388

01:09:01,269 --> 01:09:00,060

okay so it's this window of opportunity

1389

01:09:03,050 --> 01:09:01,279

right

1390

01:09:06,890 --> 01:09:03,060

so

1391

01:09:10,150 --> 01:09:06,900

um uh the the other part uh with this

1392

01:09:13,450 --> 01:09:10,160

when we look at that uh part of this

1393

01:09:15,590 --> 01:09:13,460

that maybe

1394

01:09:17,990 --> 01:09:15,600

Enrico's question would be answered that

1395

01:09:20,150 --> 01:09:18,000

just maybe

1396

01:09:22,189 --> 01:09:20,160

it's cheaper

1397

01:09:26,630 --> 01:09:22,199

and easier

1398

01:09:34,910 --> 01:09:31,370

yeah then to then to explore physically

1399

01:09:36,470 --> 01:09:34,920

right maybe a civilization may be trying

1400

01:09:38,450 --> 01:09:36,480

to reach out to us

1401

01:09:41,510 --> 01:09:38,460

with a signal

1402

01:09:44,990 --> 01:09:41,520

with information because it's easier to

1403

01:09:47,269 --> 01:09:45,000

do that certainly cheaper to do that and

1404

01:09:50,450 --> 01:09:47,279

doesn't require resources you're only

1405

01:09:53,749 --> 01:09:50,460

pointing an antenna and and and and

1406

01:09:56,330 --> 01:09:53,759

sending something out and and maybe that

1407

01:09:58,910 --> 01:09:56,340

would be easier but we haven't been

1408

01:10:02,570 --> 01:09:58,920

listening properly and we don't have the

1409

01:10:06,169 --> 01:10:02,580

ability to go and and and do that but I

1410

01:10:10,070 --> 01:10:06,179

think that is an an absolute answer

1411

01:10:11,590 --> 01:10:10,080

an absolute answer to this that we we

1412

01:10:15,470 --> 01:10:11,600

don't understand

1413

01:10:17,750 --> 01:10:15,480

uh the technology of E.T and we haven't

1414

01:10:20,090 --> 01:10:17,760

been listening the right way

1415

01:10:21,410 --> 01:10:20,100

that the signals are there they're

1416

01:10:23,450 --> 01:10:21,420

reaching out

1417

01:10:25,790 --> 01:10:23,460

you know that they've sent the probes

1418

01:10:29,209 --> 01:10:25,800

out they see where we are technically

1419

01:10:31,310 --> 01:10:29,219

and they they know right they can see

1420

01:10:33,050 --> 01:10:31,320

the satellites orbiting Earth so they

1421

01:10:34,729 --> 01:10:33,060

know where we're at

1422

01:10:37,250 --> 01:10:34,739

but we don't have a way to communicate

1423

01:10:40,070 --> 01:10:37,260

we don't have a way to listen to them

1424

01:10:41,450 --> 01:10:40,080

right and now here's here's the other

1425

01:10:44,709 --> 01:10:41,460

part

1426

01:10:47,689 --> 01:10:44,719

if we're gonna stay on that mindset

1427

01:10:50,570 --> 01:10:47,699

maybe just maybe

1428

01:10:53,630 --> 01:10:50,580

we haven't listened long enough

1429

01:10:55,610 --> 01:10:53,640

right maybe we have to sit

1430

01:10:57,890 --> 01:10:55,620

and just ride this out for a little

1431

01:11:01,310 --> 01:10:57,900

longer if it is a transfer of

1432

01:11:05,689 --> 01:11:01,320

information that's going to be digital

1433

01:11:10,910 --> 01:11:07,729

the other argument we're going to spend

1434

01:11:14,450 --> 01:11:10,920

uh a lot of time on this

1435

01:11:15,709 --> 01:11:14,460

that just may be intelligent life is too

1436

01:11:18,370 --> 01:11:15,719

far away

1437

01:11:22,430 --> 01:11:18,380

now this is an easy

1438

01:11:26,450 --> 01:11:22,440

easy argument to present

1439

01:11:29,689 --> 01:11:26,460

when you go and you look at the one

1440

01:11:32,390 --> 01:11:29,699

basic basic of the basics

1441

01:11:37,209 --> 01:11:32,400

and that is the universe itself the

1442

01:11:40,250 --> 01:11:37,219

observable universe is 95

1443

01:11:41,709 --> 01:11:40,260

billion light years across

1444

01:11:45,890 --> 01:11:41,719

now

1445

01:11:51,110 --> 01:11:48,050

that is so big

1446

01:11:52,990 --> 01:11:51,120

I mean the universe is a big big place

1447

01:11:56,510 --> 01:11:53,000

and that is

1448

01:11:59,630 --> 01:11:56,520

uh and you start doing the conversion of

1449

01:12:04,250 --> 01:11:59,640

that into miles or astronomical units it

1450

01:12:07,490 --> 01:12:04,260

is crazy big so that's the argument it's

1451

01:12:08,750 --> 01:12:07,500

just it's space is is too big stars are

1452

01:12:11,030 --> 01:12:08,760

too far apart

1453

01:12:13,130 --> 01:12:11,040

right it's just too big it's too big

1454

01:12:15,649 --> 01:12:13,140

intelligent life is there but it's just

1455

01:12:19,270 --> 01:12:15,659

too far away

1456

01:12:23,990 --> 01:12:19,280

the counter to that

1457

01:12:26,630 --> 01:12:24,000

is not only faster than light travel and

1458

01:12:30,290 --> 01:12:26,640

that may not even be enough

1459

01:12:33,290 --> 01:12:30,300

but there's got to be a simpler way to

1460

01:12:37,189 --> 01:12:33,300

get it all done not only for et but for

1461

01:12:40,790 --> 01:12:37,199

us too as well because the answer to

1462

01:12:43,850 --> 01:12:40,800

going out and and exploring something

1463

01:12:46,430 --> 01:12:43,860

and our closest star system you know

1464

01:12:48,530 --> 01:12:46,440

Proxima Centauri

1465

01:12:53,689 --> 01:12:48,540

four and a half light years away

1466

01:12:56,390 --> 01:12:53,699

and so just with conventional engines uh

1467

01:12:59,209 --> 01:12:56,400

that we have right now our analog way of

1468

01:13:00,530 --> 01:12:59,219

doing things we're talking about 75

1469

01:13:02,450 --> 01:13:00,540

000 years

1470

01:13:04,910 --> 01:13:02,460

just to go four and a half light years

1471

01:13:07,790 --> 01:13:04,920

away 75 000 years

1472

01:13:10,189 --> 01:13:07,800

so that's that's not an answer for us

1473

01:13:14,090 --> 01:13:10,199

that it's it's not so we would have to

1474

01:13:15,410 --> 01:13:14,100

overcome that and E.T and we're going to

1475

01:13:17,270 --> 01:13:15,420

figure out a way to get it done because

1476

01:13:19,970 --> 01:13:17,280

we have to

1477

01:13:23,030 --> 01:13:19,980

um when we uh blow this Popsicle stand

1478

01:13:24,770 --> 01:13:23,040

and we eventually will uh we're not

1479

01:13:26,649 --> 01:13:24,780

going to

1480

01:13:30,110 --> 01:13:26,659

pick a star

1481

01:13:32,090 --> 01:13:30,120

and one uh you know an exoplanet that is

1482

01:13:35,330 --> 01:13:32,100

identical to Earth and it's got a

1483

01:13:37,430 --> 01:13:35,340

biospheres i it's identical and we see

1484

01:13:39,410 --> 01:13:37,440

that it's got grass and trees and it's

1485

01:13:40,550 --> 01:13:39,420

got life and it's got water and it's the

1486

01:13:42,350 --> 01:13:40,560

right temperature and it's everything

1487

01:13:46,370 --> 01:13:42,360

else but

1488

01:13:49,490 --> 01:13:46,380

um it's it's 40 light years away 50

1489

01:13:51,130 --> 01:13:49,500

light years away so we're gonna be on a

1490

01:13:55,330 --> 01:13:51,140

Starship

1491

01:13:57,830 --> 01:13:55,340

conventional burning fossil fuels right

1492

01:14:01,850 --> 01:13:57,840

a Roman Candle

1493

01:14:02,930 --> 01:14:01,860

for five million years uh to get there

1494

01:14:04,130 --> 01:14:02,940

well

1495

01:14:05,750 --> 01:14:04,140

no

1496

01:14:08,450 --> 01:14:05,760

we're gonna have to overcome that we're

1497

01:14:11,570 --> 01:14:08,460

gonna have to figure that out and ET

1498

01:14:13,490 --> 01:14:11,580

has already figured that out and will we

1499

01:14:16,130 --> 01:14:13,500

figure that out in a thousand years yeah

1500

01:14:18,649 --> 01:14:16,140

we probably will we figure it out in 500

1501

01:14:20,750 --> 01:14:18,659

years probably but if the civilization

1502

01:14:23,689 --> 01:14:20,760

out there is a million years ahead of us

1503

01:14:28,729 --> 01:14:23,699

they've already got that dialed so

1504

01:14:31,550 --> 01:14:28,739

that's where the uh the Extraterrestrial

1505

01:14:34,430 --> 01:14:31,560

civilization that is intelligent is just

1506

01:14:37,070 --> 01:14:34,440

too far away argument doesn't work and

1507

01:14:39,530 --> 01:14:37,080

it doesn't hold water if uh if they're

1508

01:14:40,970 --> 01:14:39,540

out there and they're 50 000 years ahead

1509

01:14:43,070 --> 01:14:40,980

of us hundred thousand years ahead of us

1510

01:14:45,770 --> 01:14:43,080

they've already got that figured out

1511

01:14:47,930 --> 01:14:45,780

right they're not traveling faster than

1512

01:14:50,090 --> 01:14:47,940

the speed of light they're not they're

1513

01:14:52,689 --> 01:14:50,100

traveling at the speed of now and

1514

01:14:55,250 --> 01:14:52,699

they've figured it out and it's probably

1515

01:14:57,649 --> 01:14:55,260

fairly simple

1516

01:15:00,890 --> 01:14:57,659

it's probably easy

1517

01:15:02,870 --> 01:15:00,900

now some of uh some of the evidence that

1518

01:15:03,910 --> 01:15:02,880

we have today when when somebody says

1519

01:15:06,470 --> 01:15:03,920

Jimmy

1520

01:15:09,490 --> 01:15:06,480

where's this idea come from where where

1521

01:15:11,090 --> 01:15:09,500

where's the proof of this

1522

01:15:16,790 --> 01:15:11,100

just

1523

01:15:21,290 --> 01:15:16,800

the comments of the data that we have

1524

01:15:23,930 --> 01:15:21,300

from the Tic Tac going from 80 000 feet

1525

01:15:25,430 --> 01:15:23,940

90 000 feet to sea level in a fraction

1526

01:15:28,189 --> 01:15:25,440

of a second

1527

01:15:30,169 --> 01:15:28,199

just that right there what and and and

1528

01:15:31,910 --> 01:15:30,179

wait a minute you know that could be

1529

01:15:34,310 --> 01:15:31,920

that could be this it could be that okay

1530

01:15:38,290 --> 01:15:34,320

all right all right but

1531

01:15:42,169 --> 01:15:38,300

it stopped that kind of inertia

1532

01:15:45,729 --> 01:15:42,179

that physical transfer that distance

1533

01:15:49,370 --> 01:15:45,739

over that speed and stopping without

1534

01:15:51,830 --> 01:15:49,380

having a concussive tsunami wave

1535

01:15:53,870 --> 01:15:51,840

flooding the west coast of the United

1536

01:15:55,189 --> 01:15:53,880

States it's probably going all the way

1537

01:15:57,709 --> 01:15:55,199

to New York

1538

01:16:00,470 --> 01:15:57,719

that didn't happen there was no

1539

01:16:05,450 --> 01:16:00,480

disturbance in the atmosphere

1540

01:16:12,070 --> 01:16:09,110

and that's what I'm saying that uh the

1541

01:16:16,010 --> 01:16:12,080

the too far away concept now there's

1542

01:16:18,290 --> 01:16:16,020

uh there's physics there that has been

1543

01:16:19,370 --> 01:16:18,300

figured out and we're eventually going

1544

01:16:23,090 --> 01:16:19,380

to do it

1545

01:16:24,770 --> 01:16:23,100

or I I don't know the uh the time span

1546

01:16:25,729 --> 01:16:24,780

of it but I don't think it's that far

1547

01:16:29,870 --> 01:16:25,739

away

1548

01:16:33,050 --> 01:16:29,880

they don't especially uh with uh the

1549

01:16:36,430 --> 01:16:33,060

press release about this uh Wormhole

1550

01:16:39,470 --> 01:16:36,440

that was created up at alphabet

1551

01:16:43,970 --> 01:16:39,480

and the transfer of quantum information

1552

01:16:47,270 --> 01:16:43,980

in a wormhole in a lab that's pretty

1553

01:16:48,709 --> 01:16:47,280

crazy and and how quick now uh the

1554

01:16:50,149 --> 01:16:48,719

comment from the physics is going to be

1555

01:16:51,950 --> 01:16:50,159

a it's going to be a little bit before

1556

01:16:54,950 --> 01:16:51,960

we have humans going through this yeah

1557

01:16:57,649 --> 01:16:54,960

okay but once that is done and you have

1558

01:16:59,570 --> 01:16:57,659

proof of concept and and you've actually

1559

01:17:00,649 --> 01:16:59,580

tested it where do we take it to the

1560

01:17:02,649 --> 01:17:00,659

next level

1561

01:17:05,930 --> 01:17:02,659

it's going to be quicker than we think

1562

01:17:09,830 --> 01:17:05,940

so that the whole Space is too big

1563

01:17:12,649 --> 01:17:09,840

everything is too far away idea no no I

1564

01:17:15,770 --> 01:17:12,659

I just think that is completely off the

1565

01:17:15,780 --> 01:17:21,169

next

1566

01:17:21,179 --> 01:17:26,810

is there a possibility

1567

01:17:26,820 --> 01:17:31,070

that everybody is transmitting

1568

01:17:37,729 --> 01:17:34,070

I mean everybody is listening

1569

01:17:40,070 --> 01:17:37,739

but nobody's transmitting

1570

01:17:44,330 --> 01:17:40,080

now let's

1571

01:17:49,370 --> 01:17:46,209

Stephen Hawking said

1572

01:17:51,770 --> 01:17:49,380

we don't need to be

1573

01:17:53,270 --> 01:17:51,780

letting everybody know where where we

1574

01:17:55,850 --> 01:17:53,280

are

1575

01:17:58,430 --> 01:17:55,860

uh we don't know what we're exposing

1576

01:17:59,990 --> 01:17:58,440

ourselves to we have no idea what the

1577

01:18:01,130 --> 01:18:00,000

intentions are

1578

01:18:05,689 --> 01:18:01,140

yeah

1579

01:18:11,270 --> 01:18:08,030

maybe E.T

1580

01:18:14,209 --> 01:18:11,280

understands that too

1581

01:18:15,530 --> 01:18:14,219

maybe they do maybe they want to be left

1582

01:18:18,470 --> 01:18:15,540

alone

1583

01:18:22,570 --> 01:18:18,480

and maybe they just are not transmitting

1584

01:18:25,070 --> 01:18:22,580

now that doesn't mean that I am negating

1585

01:18:26,990 --> 01:18:25,080

what has been seen in the skies of my

1586

01:18:28,149 --> 01:18:27,000

own things that's not what I'm referring

1587

01:18:31,370 --> 01:18:28,159

to here

1588

01:18:32,870 --> 01:18:31,380

there has to be when we look at the

1589

01:18:35,870 --> 01:18:32,880

Fermi paradox

1590

01:18:38,870 --> 01:18:35,880

an infinite amount of considerations

1591

01:18:40,669 --> 01:18:38,880

here so we have where are the ships well

1592

01:18:42,290 --> 01:18:40,679

the ships are here where the

1593

01:18:46,070 --> 01:18:42,300

transmission where's the communications

1594

01:18:49,550 --> 01:18:46,080

I've just given you 30 different reasons

1595

01:18:50,990 --> 01:18:49,560

why it's difficult for us to Aid to

1596

01:18:52,610 --> 01:18:51,000

listen we have to be at the right place

1597

01:18:54,169 --> 01:18:52,620

at the right time to be able to do that

1598

01:18:56,630 --> 01:18:54,179

we have to know what we're listening for

1599

01:18:59,870 --> 01:18:56,640

right and you also have to have somebody

1600

01:19:02,390 --> 01:18:59,880

that's transmitting so we have all of it

1601

01:19:04,189 --> 01:19:02,400

it just continues it's just an onion

1602

01:19:05,630 --> 01:19:04,199

that you continue to peel back the

1603

01:19:07,850 --> 01:19:05,640

layers of

1604

01:19:10,330 --> 01:19:07,860

so somebody has to be transmitting for

1605

01:19:16,250 --> 01:19:10,340

us to be listening so there's probably

1606

01:19:18,530 --> 01:19:16,260

out of the hundreds of millions of etc's

1607

01:19:21,169 --> 01:19:18,540

out there extraterrestrial civilizations

1608

01:19:23,570 --> 01:19:21,179

there's going to be a chunk of them that

1609

01:19:27,229 --> 01:19:23,580

don't that don't want to transmit

1610

01:19:31,310 --> 01:19:27,239

right and then out of that you have

1611

01:19:33,590 --> 01:19:31,320

those that don't have a need to transmit

1612

01:19:35,270 --> 01:19:33,600

pretty soon on this planet we're not

1613

01:19:39,530 --> 01:19:35,280

going to have anything transmitting off

1614

01:19:42,350 --> 01:19:39,540

of here unless we are taking a a a a

1615

01:19:46,310 --> 01:19:42,360

radio dish and pointing it somewhere and

1616

01:19:48,709 --> 01:19:46,320

turning it on but but radio and

1617

01:19:50,810 --> 01:19:48,719

television signals naturally being

1618

01:19:52,970 --> 01:19:50,820

projected off of planet Earth right now

1619

01:19:55,729 --> 01:19:52,980

they're so weak and so few right now

1620

01:19:57,229 --> 01:19:55,739

that's one thing and only traveling at

1621

01:20:00,290 --> 01:19:57,239

the speed of light and the second thing

1622

01:20:03,709 --> 01:20:00,300

is uh we're going to be close to none

1623

01:20:06,470 --> 01:20:03,719

you know eventually so yeah they may be

1624

01:20:08,030 --> 01:20:06,480

listening but we're not we're not we're

1625

01:20:10,610 --> 01:20:08,040

not transmitting anything

1626

01:20:13,729 --> 01:20:10,620

and the other the other thing is you

1627

01:20:16,669 --> 01:20:13,739

have to have a very very specific part

1628

01:20:19,910 --> 01:20:16,679

of space that you're pointing to to send

1629

01:20:25,430 --> 01:20:22,850

you're going to radiate a signal in in

1630

01:20:27,890 --> 01:20:25,440

all directions all the time massive

1631

01:20:31,189 --> 01:20:27,900

amounts of energy and bursting it out

1632

01:20:34,070 --> 01:20:31,199

there into space no no we're we're we've

1633

01:20:35,630 --> 01:20:34,080

never done that and we're not going to

1634

01:20:37,370 --> 01:20:35,640

do that

1635

01:20:40,610 --> 01:20:37,380

we would have to have something very

1636

01:20:43,669 --> 01:20:40,620

specific so we would naturally expect

1637

01:20:45,709 --> 01:20:43,679

the same thing coming back are they

1638

01:20:48,229 --> 01:20:45,719

transmitting and are they transmitting

1639

01:20:51,770 --> 01:20:48,239

in our Direction and how are they doing

1640

01:20:54,050 --> 01:20:51,780

it right it's easy to listen we've got

1641

01:20:56,270 --> 01:20:54,060

radio dishes all over the planet we're

1642

01:20:58,130 --> 01:20:56,280

listening to ever as much as we can all

1643

01:21:00,169 --> 01:20:58,140

the time it's a whole other thing going

1644

01:21:05,990 --> 01:21:00,179

in the other direction

1645

01:21:10,570 --> 01:21:06,000

all right now back to Hawking uh and and

1646

01:21:12,470 --> 01:21:10,580

his point and many have made this point

1647

01:21:15,350 --> 01:21:12,480

that

1648

01:21:17,570 --> 01:21:15,360

although it may be a small part of of

1649

01:21:20,149 --> 01:21:17,580

the Milky Way

1650

01:21:21,950 --> 01:21:20,159

maybe communication like that just is

1651

01:21:24,229 --> 01:21:21,960

completely dangerous

1652

01:21:28,430 --> 01:21:24,239

that most of the intelligent life out

1653

01:21:31,870 --> 01:21:28,440

there is is smart mature they're not

1654

01:21:34,310 --> 01:21:31,880

hostile they're not concerned with that

1655

01:21:38,450 --> 01:21:34,320

but some are

1656

01:21:41,570 --> 01:21:38,460

and the second that they detect what is

1657

01:21:46,130 --> 01:21:41,580

going on they turn their ships what or

1658

01:21:50,810 --> 01:21:49,310

Third Rock from their son

1659

01:21:54,709 --> 01:21:50,820

let's go

1660

01:21:57,590 --> 01:21:54,719

right and and there may be that

1661

01:22:00,770 --> 01:21:57,600

so maybe reaching out there and saying

1662

01:22:02,330 --> 01:22:00,780

hello is dangerous not to everything but

1663

01:22:05,030 --> 01:22:02,340

it only takes one

1664

01:22:07,070 --> 01:22:05,040

now my argument with that

1665

01:22:10,130 --> 01:22:07,080

and I keep coming back to this if

1666

01:22:12,649 --> 01:22:10,140

somebody really had bad intentions uh I

1667

01:22:17,570 --> 01:22:12,659

I think we would know it by now I we we

1668

01:22:19,370 --> 01:22:17,580

100 would know it and and we would no as

1669

01:22:21,169 --> 01:22:19,380

a matter of fact

1670

01:22:23,930 --> 01:22:21,179

we wouldn't know it it would happen so

1671

01:22:26,750 --> 01:22:23,940

quick it wouldn't be some other ship

1672

01:22:29,570 --> 01:22:26,760

showing up here and you know uh an

1673

01:22:33,189 --> 01:22:29,580

Interstellar war and we're gonna defend

1674

01:22:37,130 --> 01:22:33,199

the planet with uh AR-15s and

1675

01:22:38,570 --> 01:22:37,140

yf-22s no no it's it it we we wouldn't

1676

01:22:41,570 --> 01:22:38,580

see it coming

1677

01:22:44,209 --> 01:22:41,580

all right so uh there is that but you

1678

01:22:47,090 --> 01:22:44,219

you just don't want that point

1679

01:22:49,729 --> 01:22:47,100

right and and so lighting a candle and

1680

01:22:52,850 --> 01:22:49,739

saying here we are and attempting

1681

01:22:55,850 --> 01:22:52,860

communication just may be dangerous and

1682

01:22:58,610 --> 01:22:55,860

it's something that uh uh is something

1683

01:23:04,669 --> 01:22:58,620

to be considered now here is another

1684

01:23:04,679 --> 01:23:08,270

Maybe

1685

01:23:14,450 --> 01:23:11,890

maybe there is so much goodness

1686

01:23:15,950 --> 01:23:14,460

in the Milky Way

1687

01:23:17,689 --> 01:23:15,960

in the rest of the universe maybe

1688

01:23:19,970 --> 01:23:17,699

there's so much goodness so much

1689

01:23:21,649 --> 01:23:19,980

advanced

1690

01:23:23,870 --> 01:23:21,659

knowledge

1691

01:23:26,770 --> 01:23:23,880

such a maturity out there so much

1692

01:23:32,570 --> 01:23:26,780

goodness out there

1693

01:23:35,510 --> 01:23:32,580

that Earth is being deliberately avoided

1694

01:23:38,870 --> 01:23:35,520

now before you go huh wait wait wait

1695

01:23:42,550 --> 01:23:40,970

and it it's kind of like the prime

1696

01:23:46,850 --> 01:23:42,560

directive

1697

01:23:50,149 --> 01:23:46,860

but um we're being monitored

1698

01:23:53,450 --> 01:23:50,159

they know where we're at they they see

1699

01:23:55,729 --> 01:23:53,460

what's going on they understand they

1700

01:23:57,950 --> 01:23:55,739

know that there's life here they they

1701

01:24:00,649 --> 01:23:57,960

get that they are sending probes here

1702

01:24:03,530 --> 01:24:00,659

they're scientifically investigating

1703

01:24:04,910 --> 01:24:03,540

this planet and every other planet

1704

01:24:07,490 --> 01:24:04,920

um in the Milky Way they're they're

1705

01:24:11,510 --> 01:24:07,500

doing all of that and they know where we

1706

01:24:13,610 --> 01:24:11,520

are but they're leaving us alone

1707

01:24:16,430 --> 01:24:13,620

that they're they you know they want us

1708

01:24:19,250 --> 01:24:16,440

to grow in the Blossom on our own

1709

01:24:23,950 --> 01:24:19,260

just maybe that is the case

1710

01:24:30,229 --> 01:24:27,410

would we do the same thing and I think

1711

01:24:33,350 --> 01:24:30,239

the short answer to that is yes would we

1712

01:24:36,050 --> 01:24:33,360

do the same thing what is the advantage

1713

01:24:37,189 --> 01:24:36,060

now we go to

1714

01:24:40,370 --> 01:24:37,199

um

1715

01:24:42,590 --> 01:24:40,380

uh 2001 A Space Odyssey

1716

01:24:44,630 --> 01:24:42,600

and as much as I love that film and

1717

01:24:47,090 --> 01:24:44,640

everybody knows I I just watched it last

1718

01:24:48,890 --> 01:24:47,100

month and I sent out the pictures of of

1719

01:24:51,290 --> 01:24:48,900

me watching it I love that film I watch

1720

01:24:53,630 --> 01:24:51,300

it all the time

1721

01:24:57,350 --> 01:24:53,640

for many reasons

1722

01:24:59,930 --> 01:24:57,360

but the concept that Arthur C Clarke and

1723

01:25:02,450 --> 01:24:59,940

Stanley Kubrick did in the beginning of

1724

01:25:04,790 --> 01:25:02,460

that film with monoliths being

1725

01:25:08,870 --> 01:25:04,800

deliberately buried on the moon and the

1726

01:25:14,090 --> 01:25:08,880

monolith uh Landing here on Earth

1727

01:25:17,270 --> 01:25:14,100

um uh and to teach and it's it's laid

1728

01:25:19,430 --> 01:25:17,280

out in in the book uh better than it is

1729

01:25:22,370 --> 01:25:19,440

in the movie in the book a picture

1730

01:25:23,330 --> 01:25:22,380

screen pops up shows them how to make

1731

01:25:25,310 --> 01:25:23,340

fire

1732

01:25:28,130 --> 01:25:25,320

shows them how to do things how to how

1733

01:25:30,410 --> 01:25:28,140

to you know make tools and all this

1734

01:25:34,310 --> 01:25:30,420

comes on a screen and it teaches right

1735

01:25:37,250 --> 01:25:34,320

okay so would we do something like that

1736

01:25:40,790 --> 01:25:37,260

I think that was uh an inaccurate part

1737

01:25:44,390 --> 01:25:40,800

of of Arthur C Clarke now this was a in

1738

01:25:46,370 --> 01:25:44,400

an alien species coming to Earth but us

1739

01:25:48,709 --> 01:25:46,380

going in the other direction would we do

1740

01:25:53,689 --> 01:25:50,630

I I don't think we would

1741

01:25:55,669 --> 01:25:53,699

right where we we go to a planet we find

1742

01:25:58,910 --> 01:25:55,679

out that there's life there we land and

1743

01:26:01,189 --> 01:25:58,920

we do see we see a version of us Homo

1744

01:26:04,250 --> 01:26:01,199

sapiens sapien there but but they don't

1745

01:26:07,850 --> 01:26:04,260

have fire yet you know they they're

1746

01:26:10,669 --> 01:26:07,860

using bones for tools or for weapons

1747

01:26:13,010 --> 01:26:10,679

and and we're gonna

1748

01:26:15,709 --> 01:26:13,020

teach them how to make fire would we

1749

01:26:18,050 --> 01:26:15,719

would we do that would we toss them a

1750

01:26:20,750 --> 01:26:18,060

big lighter and show them that it's it's

1751

01:26:23,270 --> 01:26:20,760

this easy and and and here would we do

1752

01:26:26,410 --> 01:26:23,280

that no I I don't I think that we would

1753

01:26:29,090 --> 01:26:26,420

leave them alone but we would check in

1754

01:26:31,910 --> 01:26:29,100

we would monitor

1755

01:26:33,770 --> 01:26:31,920

we would check on the progress

1756

01:26:35,450 --> 01:26:33,780

I think that we would do that and I

1757

01:26:39,350 --> 01:26:35,460

think that

1758

01:26:43,070 --> 01:26:39,360

um a possibility is is just that that we

1759

01:26:46,310 --> 01:26:43,080

are being deliberately avoided

1760

01:26:50,870 --> 01:26:46,320

yeah now that doesn't mean that

1761

01:26:54,110 --> 01:26:50,880

eventually we become a a player in the

1762

01:26:56,510 --> 01:26:54,120

galactic part of of the Milky Way and

1763

01:27:00,050 --> 01:26:56,520

we're trading and we're sharing and

1764

01:27:01,129 --> 01:27:00,060

we're visiting planets and and uh you

1765

01:27:03,649 --> 01:27:01,139

know living

1766

01:27:06,709 --> 01:27:03,659

The Fifth Element and and doing those

1767

01:27:09,470 --> 01:27:06,719

things yeah yeah that eventually are we

1768

01:27:13,070 --> 01:27:09,480

ready for that now no I think we all

1769

01:27:17,649 --> 01:27:13,080

know that and they are waiting for us

1770

01:27:20,330 --> 01:27:17,659

now to to get all metaphysical and and

1771

01:27:23,570 --> 01:27:20,340

conscious oriented and talk about our

1772

01:27:27,890 --> 01:27:23,580

space brothers and and we've got to live

1773

01:27:29,870 --> 01:27:27,900

uh uh raise our or you know or you know

1774

01:27:33,590 --> 01:27:29,880

we got to get to 5D and we got to get to

1775

01:27:36,890 --> 01:27:33,600

60. well okay yeah yeah but not really

1776

01:27:39,290 --> 01:27:36,900

we're just simply not ready for it

1777

01:27:42,470 --> 01:27:39,300

we're simply not ready we're too wrapped

1778

01:27:46,250 --> 01:27:42,480

up in war and weapons and guns and and

1779

01:27:48,229 --> 01:27:46,260

and and nuclear bombs and to this and

1780

01:27:50,510 --> 01:27:48,239

that that's where we are right now we're

1781

01:27:54,169 --> 01:27:50,520

not we're simply not ready for it we've

1782

01:27:58,250 --> 01:27:54,179

got to move on past it now the the other

1783

01:27:59,030 --> 01:27:58,260

part when we are talking about uh uh

1784

01:28:01,250 --> 01:27:59,040

uh

1785

01:28:04,970 --> 01:28:01,260

um the

1786

01:28:08,930 --> 01:28:04,980

the Fermi Paradox is

1787

01:28:13,370 --> 01:28:08,940

if we if we back up

1788

01:28:16,010 --> 01:28:13,380

and we take a look at where we are

1789

01:28:18,890 --> 01:28:16,020

and what

1790

01:28:22,370 --> 01:28:18,900

E.T is seeing

1791

01:28:28,010 --> 01:28:25,070

and and what Fermi was expecting by

1792

01:28:30,050 --> 01:28:28,020

there there must be somebody out there

1793

01:28:33,290 --> 01:28:30,060

that wants to shake our hands and

1794

01:28:37,129 --> 01:28:33,300

there's so much of of that type of Life

1795

01:28:39,250 --> 01:28:37,139

out there that we have to be no no I I

1796

01:28:44,149 --> 01:28:39,260

just don't think we're at that point

1797

01:28:46,490 --> 01:28:44,159

and even if now I keep going back to uh

1798

01:28:49,129 --> 01:28:46,500

the Von Neumann probes

1799

01:28:52,430 --> 01:28:49,139

because of what we are doing here in our

1800

01:28:55,970 --> 01:28:52,440

own solar system and what we would like

1801  
01:28:58,070 --> 01:28:55,980  
to do with the rest of the Milky Way and

1802  
01:29:01,070 --> 01:28:58,080  
we're we're looking further and further

1803  
01:29:04,430 --> 01:29:01,080  
out with space telescopes and tests and

1804  
01:29:06,530 --> 01:29:04,440  
and uh the web telescope if that's what

1805  
01:29:09,530 --> 01:29:06,540  
we are doing right and we are looking

1806  
01:29:12,290 --> 01:29:09,540  
further and further out then yes

1807  
01:29:16,610 --> 01:29:12,300  
yes we are being visited we're being

1808  
01:29:17,450 --> 01:29:16,620  
visited a lot the the other part though

1809  
01:29:19,310 --> 01:29:17,460  
um

1810  
01:29:20,270 --> 01:29:19,320  
that I was just getting ready to get

1811  
01:29:23,390 --> 01:29:20,280  
into

1812  
01:29:25,550 --> 01:29:23,400  
is contact and contact of the Third Kind

1813  
01:29:29,870 --> 01:29:25,560

and The Fourth Kind and

1814

01:29:31,970 --> 01:29:29,880

and what are what is it that uh people

1815

01:29:34,550 --> 01:29:31,980

on this planet are experiencing right

1816

01:29:36,410 --> 01:29:34,560

now and that is another part that uh

1817

01:29:38,629 --> 01:29:36,420

Fermi wasn't dealing with or was

1818

01:29:42,110 --> 01:29:38,639

thinking about in concept

1819

01:29:44,570 --> 01:29:42,120

um in 1950 and and certainly uh the

1820

01:29:50,030 --> 01:29:44,580

Drake equation in 1961 Betty and Barney

1821

01:29:52,490 --> 01:29:50,040

Hill that was 1961. and so are we is

1822

01:29:53,629 --> 01:29:52,500

there intentional contact going on right

1823

01:30:03,050 --> 01:29:53,639

now

1824

01:30:06,470 --> 01:30:03,060

tonight with the Fermi Paradox

1825

01:30:10,669 --> 01:30:06,480

um talking about E.T is already here

1826

01:30:15,709 --> 01:30:10,679

right now beings

1827

01:30:17,590 --> 01:30:15,719

gray aliens reptilians mantid beings

1828

01:30:20,890 --> 01:30:17,600

right

1829

01:30:25,610 --> 01:30:20,900

energy beings

1830

01:30:28,129 --> 01:30:25,620

is this part of what is going on

1831

01:30:29,990 --> 01:30:28,139

I would say that

1832

01:30:33,410 --> 01:30:30,000

Fermi

1833

01:30:34,910 --> 01:30:33,420

with what is uh the conversation that is

1834

01:30:38,450 --> 01:30:34,920

going on today with contact and

1835

01:30:40,250 --> 01:30:38,460

abductees and and if cattle mutilations

1836

01:30:42,770 --> 01:30:40,260

and everything else that that would

1837

01:30:45,770 --> 01:30:42,780

change the conversation

1838

01:30:50,570 --> 01:30:45,780

and is this part of contact

1839

01:30:54,709 --> 01:30:50,580

right is this what is going on so with

1840

01:30:54,719 --> 01:30:58,129

I think

1841

01:31:01,370 --> 01:31:00,169

and I'm feeling pretty confident about

1842

01:31:04,790 --> 01:31:01,380

this

1843

01:31:08,209 --> 01:31:04,800

that whatever life is

1844

01:31:12,169 --> 01:31:08,219

possibly visiting this planet

1845

01:31:15,530 --> 01:31:12,179

that they have the ability

1846

01:31:16,990 --> 01:31:15,540

to be in an interdimensional

1847

01:31:22,669 --> 01:31:17,000

existence

1848

01:31:25,370 --> 01:31:22,679

that they are showing up and leaving

1849

01:31:27,950 --> 01:31:25,380

in a dimension in another parallel world

1850

01:31:31,550 --> 01:31:27,960

and something that physics and Sciences

1851  
01:31:33,110 --> 01:31:31,560  
is desperately trying to to prove and to

1852  
01:31:36,229 --> 01:31:33,120  
show us

1853  
01:31:39,830 --> 01:31:36,239  
but that may be the case now what would

1854  
01:31:41,810 --> 01:31:39,840  
in uh what would Enrico Fermi and Ed

1855  
01:31:43,550 --> 01:31:41,820  
teller and others back in the day

1856  
01:31:45,350 --> 01:31:43,560  
Oppenheimer

1857  
01:31:47,990 --> 01:31:45,360  
with this concept

1858  
01:31:51,110 --> 01:31:48,000  
because it's not a nuts and bolts

1859  
01:31:52,270 --> 01:31:51,120  
situation they were dealing with speed

1860  
01:31:57,550 --> 01:31:52,280  
of light

1861  
01:32:00,890 --> 01:31:57,560  
uh uh a craft made of materials being

1862  
01:32:04,010 --> 01:32:00,900  
driven by a physical being and arriving

1863  
01:32:06,770 --> 01:32:04,020

here on planet Earth where today where

1864

01:32:09,590 --> 01:32:06,780

we have millions of experiencers and

1865

01:32:13,189 --> 01:32:09,600

abductees that speak of something else

1866

01:32:16,610 --> 01:32:13,199

when it comes to contact and that I I

1867

01:32:19,010 --> 01:32:16,620

think that the possibility is there that

1868

01:32:20,270 --> 01:32:19,020

there's an interdimensional concept to

1869

01:32:22,610 --> 01:32:20,280

all of this

1870

01:32:25,669 --> 01:32:22,620

and that's where we are today

1871

01:32:28,250 --> 01:32:25,679

so with that

1872

01:32:30,890 --> 01:32:28,260

with some of the sightings that is

1873

01:32:33,950 --> 01:32:30,900

happening in the air where are they you

1874

01:32:36,350 --> 01:32:33,960

know up in the skies where these craft

1875

01:32:40,129 --> 01:32:36,360

and I've seen them myself

1876

01:32:43,189 --> 01:32:40,139

up here and leave

1877

01:32:49,629 --> 01:32:46,910

one of the best examples I have of this

1878

01:32:53,390 --> 01:32:49,639

that I've seen

1879

01:32:56,330 --> 01:32:53,400

was the Zorro Z

1880

01:32:58,669 --> 01:32:56,340

now this was

1881

01:33:02,050 --> 01:32:58,679

um and I've I've described this to

1882

01:33:05,470 --> 01:33:02,060

everybody before but this is the concept

1883

01:33:07,189 --> 01:33:05,480

that Fermi this would change everything

1884

01:33:09,890 --> 01:33:07,199

he wouldn't have had the same

1885

01:33:11,689 --> 01:33:09,900

conversation if he experienced

1886

01:33:14,870 --> 01:33:11,699

what I experienced with a group of

1887

01:33:19,910 --> 01:33:14,880

people and this was

1888

01:33:22,030 --> 01:33:19,920

it appeared to me that this blue light

1889

01:33:25,610 --> 01:33:22,040

was blue green

1890

01:33:27,709 --> 01:33:25,620

appeared in the sky it lit up and across

1891

01:33:30,350 --> 01:33:27,719

the sky did a z went this way and then

1892

01:33:33,050 --> 01:33:30,360

disappeared but it took up a huge chunk

1893

01:33:36,770 --> 01:33:33,060

of the sky I don't know how many degrees

1894

01:33:38,689 --> 01:33:36,780

across the sky and it lasted for

1895

01:33:43,129 --> 01:33:38,699

a second

1896

01:33:48,169 --> 01:33:43,139

was two seconds long it was very quick

1897

01:33:50,990 --> 01:33:48,179

but that appeared and then left

1898

01:33:53,270 --> 01:33:51,000

so what what is that so then if we go

1899

01:33:55,550 --> 01:33:53,280

back to

1900

01:33:57,110 --> 01:33:55,560

um a tear in the sky

1901

01:34:00,649 --> 01:33:57,120

where

1902

01:34:02,810 --> 01:34:00,659

um in that film it appears that a hole

1903

01:34:05,450 --> 01:34:02,820

in the sky opens up and dozens and

1904

01:34:07,850 --> 01:34:05,460

dozens of craft as Carolyn Corey's new

1905

01:34:09,649 --> 01:34:07,860

film it's extraordinary that this was

1906

01:34:12,590 --> 01:34:09,659

caught

1907

01:34:15,350 --> 01:34:12,600

um on on video and film and measured

1908

01:34:17,450 --> 01:34:15,360

and the data was collected but that this

1909

01:34:20,870 --> 01:34:17,460

opening happened over Southern

1910

01:34:24,950 --> 01:34:20,880

California and dozens of objects

1911

01:34:27,590 --> 01:34:24,960

then appeared out of it and through it

1912

01:34:30,830 --> 01:34:27,600

this changes everything too

1913

01:34:32,090 --> 01:34:30,840

and and how would Fermi then try to

1914

01:34:34,430 --> 01:34:32,100

apply

1915

01:34:36,110 --> 01:34:34,440

his statement to something like that

1916

01:34:37,430 --> 01:34:36,120

because we're not talking about faster

1917

01:34:39,709 --> 01:34:37,440

than light now we're talking about

1918

01:34:45,590 --> 01:34:39,719

something that's opening up in the sky

1919

01:34:48,350 --> 01:34:45,600

so yes I I I I feel that the Fermi

1920

01:34:50,570 --> 01:34:48,360

Paradox today does not apply

1921

01:34:55,149 --> 01:34:50,580

I don't think that the Drake equation

1922

01:34:58,010 --> 01:34:55,159

applies today the Drake equation numbers

1923

01:35:01,310 --> 01:34:58,020

when we plug in the data that we know

1924

01:35:05,030 --> 01:35:01,320

now how stars are formed how many stars

1925

01:35:07,490 --> 01:35:05,040

are in our Milky Way and then trying to

1926

01:35:10,310 --> 01:35:07,500

that there's at least one planet we have

1927

01:35:11,689 --> 01:35:10,320

eight nine ten planets we can count

1928

01:35:14,330 --> 01:35:11,699

series

1929

01:35:17,750 --> 01:35:14,340

um and Planet X 10 planets just in our

1930

01:35:20,390 --> 01:35:17,760

star system so if we've got 500 billion

1931

01:35:22,189 --> 01:35:20,400

to one trillion stars in the Milky Way

1932

01:35:23,689 --> 01:35:22,199

and we truly honestly don't know if

1933

01:35:25,790 --> 01:35:23,699

everything is guesswork but but

1934

01:35:29,090 --> 01:35:25,800

somewhere in there that we are now

1935

01:35:32,450 --> 01:35:29,100

talking about uh a trillion or more

1936

01:35:34,250 --> 01:35:32,460

planets just in the Milky Way it upsets

1937

01:35:35,410 --> 01:35:34,260

the Drake equation into another

1938

01:35:38,149 --> 01:35:35,420

## Direction

1939

01:35:40,629 --> 01:35:38,159

the the other part some of the hard

1940

01:35:46,430 --> 01:35:40,639

numbers uh for the Drake equation that

1941

01:35:49,669 --> 01:35:46,440

again makes it uh not usable is that we

1942

01:35:52,790 --> 01:35:49,679

are guesstimating now that one out of

1943

01:35:55,550 --> 01:35:52,800

two one out of four planets is Rocky and

1944

01:35:57,530 --> 01:35:55,560

Earth-like and then how many are in the

1945

01:35:59,629 --> 01:35:57,540

Goldilocks zone which is something else

1946

01:36:02,629 --> 01:35:59,639

that wasn't applied back with uh the

1947

01:36:05,470 --> 01:36:02,639

Drake equation or fermi's concept of

1948

01:36:08,810 --> 01:36:05,480

things 1950 we were the only planet

1949

01:36:12,110 --> 01:36:08,820

today we know that that is not the case

1950

01:36:15,290 --> 01:36:12,120

so the numbers as you plug it in today

1951

01:36:19,610 --> 01:36:15,300

into the Drake equation now we're

1952

01:36:22,550 --> 01:36:19,620

looking at uh a crazy not a hundred

1953

01:36:27,470 --> 01:36:22,560

million which is a big number but we're

1954

01:36:30,770 --> 01:36:27,480

talking about 40 billion a hundred

1955

01:36:32,450 --> 01:36:30,780

billion earth-like planets just in the

1956

01:36:34,850 --> 01:36:32,460

Goldilocks zone

1957

01:36:37,970 --> 01:36:34,860

in the Milky Way

1958

01:36:39,950 --> 01:36:37,980

so now how much of that and how you know

1959

01:36:43,790 --> 01:36:39,960

how does that spin off and what is in

1960

01:36:45,470 --> 01:36:43,800

our Galactic neighborhood it's uh it

1961

01:36:47,450 --> 01:36:45,480

just doesn't apply

1962

01:36:50,870 --> 01:36:47,460

so today

1963

01:36:55,370 --> 01:36:50,880

um uh I mean today today

1964

01:36:57,890 --> 01:36:55,380

um you can go and look at uh 75 or 100

1965

01:37:02,030 --> 01:36:57,900

different filters today I went through

1966

01:37:05,149 --> 01:37:02,040

25. I I've I could have done 200 uh

1967

01:37:07,990 --> 01:37:05,159

today I went through 25 30 filters you

1968

01:37:13,129 --> 01:37:08,000

can go and and examine

1969

01:37:15,770 --> 01:37:13,139

75 to 100 filters on each level of the

1970

01:37:19,310 --> 01:37:15,780

Fermi Paradox trying to answer different

1971

01:37:21,229 --> 01:37:19,320

uh different sections of the Fermi

1972

01:37:25,669 --> 01:37:21,239

Paradox of which generally there's five

1973

01:37:28,370 --> 01:37:25,679

and you have say 75 to 100 filters on

1974

01:37:31,390 --> 01:37:28,380

each one of those right and each one of

1975

01:37:33,229 --> 01:37:31,400

those filters of the 75 on the subset

1976

01:37:37,669 --> 01:37:33,239

expands out

1977

01:37:40,189 --> 01:37:37,679

and all of it is in of of an old concept

1978

01:37:42,530 --> 01:37:40,199

and it doesn't apply today

1979

01:37:45,350 --> 01:37:42,540

it doesn't all of the arguments were

1980

01:37:48,350 --> 01:37:45,360

valid and it was based on the current

1981

01:37:50,270 --> 01:37:48,360

data that was around at that time but it

1982

01:37:52,209 --> 01:37:50,280

doesn't it doesn't it doesn't apply

1983

01:37:54,890 --> 01:37:52,219

today

1984

01:37:57,050 --> 01:37:54,900

so there you go

1985

01:38:00,709 --> 01:37:57,060

um let me see here let me see if I can

1986

01:38:02,990 --> 01:38:00,719

get to some of your points uh

1987

01:38:04,390 --> 01:38:03,000

uh Drake should have made a c

1988

01:38:07,790 --> 01:38:04,400

uh

1989

01:38:13,550 --> 01:38:10,610

I was all about this from Skyhawk I was

1990

01:38:17,750 --> 01:38:13,560

all about let me let me pull this down

1991

01:38:23,390 --> 01:38:20,090

50 years ago I was all about Nuts and

1992

01:38:27,890 --> 01:38:23,400

Bolts from a galaxy far far away I have

1993

01:38:29,570 --> 01:38:27,900

evolved and I used to do the same thing

1994

01:38:31,070 --> 01:38:29,580

I used to do the same thing and I used

1995

01:38:34,370 --> 01:38:31,080

to make these comments and I used to go

1996

01:38:35,270 --> 01:38:34,380

into uh different uh groups on the

1997

01:38:37,729 --> 01:38:35,280

internet

1998

01:38:40,430 --> 01:38:37,739

um especially in the 90s where I would

1999

01:38:42,530 --> 01:38:40,440

make those comments and it's not that

2000

01:38:45,590 --> 01:38:42,540

long ago 25 years ago almost 30 years

2001  
01:38:48,770 --> 01:38:45,600  
ago where I would say I don't know where

2002  
01:38:50,330 --> 01:38:48,780  
there with everything that I have seen

2003  
01:38:51,950 --> 01:38:50,340  
and with everything that has been

2004  
01:38:55,070 --> 01:38:51,960  
witnessed and everything that has been

2005  
01:38:59,750 --> 01:38:55,080  
talked about there must be

2006  
01:39:03,110 --> 01:38:59,760  
a highway that is bumper to bumper

2007  
01:39:06,890 --> 01:39:03,120  
traffic jammed coming to Earth and why

2008  
01:39:10,129 --> 01:39:06,900  
can't we point telescopes out there and

2009  
01:39:12,050 --> 01:39:10,139  
detect all of these ships these flyings

2010  
01:39:13,310 --> 01:39:12,060  
officers these craft that are

2011  
01:39:15,890 --> 01:39:13,320  
approaching Earth

2012  
01:39:18,229 --> 01:39:15,900  
I mean they they're just flooding in

2013  
01:39:20,689 --> 01:39:18,239

from everywhere why why don't we see

2014

01:39:24,229 --> 01:39:20,699

that yeah I used to be completely Nuts

2015

01:39:27,050 --> 01:39:24,239

and Bolts I was I was that way

2016

01:39:30,830 --> 01:39:27,060

absolutely absolutely and I used to make

2017

01:39:33,770 --> 01:39:30,840

this argument and here's the thing

2018

01:39:36,970 --> 01:39:33,780

um uh the um

2019

01:39:42,370 --> 01:39:36,980

uh responses that I used to get

2020

01:39:45,310 --> 01:39:42,380

uh to my points were so especially now

2021

01:39:48,470 --> 01:39:45,320

we're so

2022

01:39:50,810 --> 01:39:48,480

juvenile I mean nobody knew nobody had a

2023

01:39:52,550 --> 01:39:50,820

grasp nobody you know and the whole

2024

01:39:54,350 --> 01:39:52,560

inter dimension of the whole faster than

2025

01:39:56,450 --> 01:39:54,360

light the whole folding of space or

2026

01:39:58,910 --> 01:39:56,460

wormholes and they they were kind of

2027

01:40:02,930 --> 01:39:58,920

discussed but we didn't understand like

2028

01:40:05,870 --> 01:40:02,940

we do today and those parts of these

2029

01:40:09,110 --> 01:40:05,880

conversations were never brought in into

2030

01:40:13,370 --> 01:40:09,120

the debate not like they are today and I

2031

01:40:16,189 --> 01:40:13,380

have changed I have completely changed

2032

01:40:21,590 --> 01:40:16,199

completely change I am absolutely

2033

01:40:23,450 --> 01:40:21,600

convinced that uh you uh if you're out

2034

01:40:25,189 --> 01:40:23,460

there and you're a million light years

2035

01:40:26,930 --> 01:40:25,199

away and this is where you want to go

2036

01:40:28,850 --> 01:40:26,940

you just do it

2037

01:40:30,649 --> 01:40:28,860

you're not spending a million years

2038

01:40:34,070 --> 01:40:30,659

traveling you're not

2039

01:40:36,050 --> 01:40:34,080

you're spending a nanosecond you're just

2040

01:40:39,350 --> 01:40:36,060

there

2041

01:40:41,450 --> 01:40:39,360

I am sure they have all different ways

2042

01:40:43,910 --> 01:40:41,460

how they maneuver in and out of

2043

01:40:46,430 --> 01:40:43,920

different dimensions I I think that and

2044

01:40:48,290 --> 01:40:46,440

see now here we have this is Stargazer

2045

01:40:52,550 --> 01:40:48,300

thank you for that

2046

01:40:55,550 --> 01:40:52,560

um which goes back to my point it was a

2047

01:40:58,310 --> 01:40:55,560

such a a fundamental basic way of

2048

01:41:01,790 --> 01:40:58,320

arguing these points you know 50 years

2049

01:41:03,950 --> 01:41:01,800

ago 25 years ago we we just did now

2050

01:41:07,010 --> 01:41:03,960

today I think that everybody understands

2051  
01:41:07,910 --> 01:41:07,020  
these Concepts it's a different thing we

2052  
01:41:10,970 --> 01:41:07,920  
know

2053  
01:41:14,870 --> 01:41:10,980  
that look

2054  
01:41:16,910 --> 01:41:14,880  
this is if we are going to take

2055  
01:41:19,669 --> 01:41:16,920  
let's okay let's talk about Bob Lazar

2056  
01:41:23,149 --> 01:41:19,679  
let's take Bob Lazar at his word right

2057  
01:41:25,729 --> 01:41:23,159  
so he goes out to the sport model it's

2058  
01:41:28,370 --> 01:41:25,739  
floating and he goes outside and he sees

2059  
01:41:30,770 --> 01:41:28,380  
the door remember and they go okay dude

2060  
01:41:33,530 --> 01:41:30,780  
go in there and check it out so he goes

2061  
01:41:35,330 --> 01:41:33,540  
out he climbs in and what does he

2062  
01:41:38,030 --> 01:41:35,340  
describe

2063  
01:41:39,830 --> 01:41:38,040

there's a chair

2064

01:41:41,870 --> 01:41:39,840

okay what else well that was about it

2065

01:41:44,990 --> 01:41:41,880

you know there's a flat floor

2066

01:41:48,169 --> 01:41:45,000

the the uh the three drive units were

2067

01:41:50,990 --> 01:41:48,179

were underneath the three gravity drives

2068

01:41:55,490 --> 01:41:51,000

okay but but what else I mean that was

2069

01:41:58,250 --> 01:41:55,500

now are you are you telling me this is

2070

01:42:04,669 --> 01:41:58,260

where we have advanced are you telling

2071

01:42:08,570 --> 01:42:04,679

me that dude is gonna sit in that chair

2072

01:42:12,590 --> 01:42:10,790

you don't have a pool table you don't

2073

01:42:14,149 --> 01:42:12,600

have a pool you don't have a bed you

2074

01:42:16,490 --> 01:42:14,159

don't have a bedroom

2075

01:42:18,410 --> 01:42:16,500

you don't have a stereo system you don't

2076

01:42:19,790 --> 01:42:18,420

have pictures on the wall you don't have

2077

01:42:22,729 --> 01:42:19,800

a dining room table you've got nothing

2078

01:42:25,609 --> 01:42:22,739

but a chair and you're going to sit in

2079

01:42:28,490 --> 01:42:25,619

this tiny little flying saucer that is

2080

01:42:31,370 --> 01:42:28,500

20 feet across and you're gonna you're

2081

01:42:36,590 --> 01:42:31,380

gonna spend time

2082

01:42:42,709 --> 01:42:39,410

for a million years just to get here to

2083

01:42:44,450 --> 01:42:42,719

Earth I mean how do you get up and

2084

01:42:46,490 --> 01:42:44,460

stretch your legs what do you do

2085

01:42:51,649 --> 01:42:46,500

where do you sleep

2086

01:42:53,390 --> 01:42:51,659

well if we take Bob out of his word and

2087

01:42:57,050 --> 01:42:53,400

that is the case

2088

01:43:00,590 --> 01:42:57,060

it's because he sat down in that chair

2089

01:43:06,109 --> 01:43:02,990

yeah

2090

01:43:08,270 --> 01:43:06,119

that goes with any of this

2091

01:43:09,709 --> 01:43:08,280

any of this because

2092

01:43:11,030 --> 01:43:09,719

if you're gonna if you're gonna go

2093

01:43:15,649 --> 01:43:11,040

beyond that

2094

01:43:20,709 --> 01:43:15,659

and and and travel this way you are

2095

01:43:22,750 --> 01:43:20,719

going to be on a ship that has a city

2096

01:43:27,169 --> 01:43:22,760

schools

2097

01:43:30,109 --> 01:43:27,179

hospitals stores Apartments houses Homes

2098

01:43:36,109 --> 01:43:33,370

and you're gonna live on that for

2099

01:43:39,709 --> 01:43:36,119

thousands of years

2100

01:43:43,490 --> 01:43:39,719

you're going to be on a colony ship

2101  
01:43:45,770 --> 01:43:43,500  
where and and by the time you get to

2102  
01:43:48,649 --> 01:43:45,780  
where you're going you

2103  
01:43:50,149 --> 01:43:48,659  
've been dead for 10 000 years it's your

2104  
01:43:53,930 --> 01:43:50,159  
great great great great great great

2105  
01:43:56,090 --> 01:43:53,940  
great cloned grandchildren that are

2106  
01:43:56,810 --> 01:43:56,100  
going to arrive at that planet you're

2107  
01:44:01,070 --> 01:43:56,820  
not

2108  
01:44:02,870 --> 01:44:01,080  
there when it departs

2109  
01:44:04,430 --> 01:44:02,880  
so when we shrink this down we're

2110  
01:44:06,229 --> 01:44:04,440  
talking about the sport bottle Bob said

2111  
01:44:07,729 --> 01:44:06,239  
there was nine right he's walking down

2112  
01:44:10,189 --> 01:44:07,739  
the hall when he sees nine different

2113  
01:44:13,310 --> 01:44:10,199

ships any one of those it's parked in a

2114

01:44:16,609 --> 01:44:13,320

hanger it's a tiny little craft it is

2115

01:44:19,189 --> 01:44:16,619

not out there for a million years going

2116

01:44:22,270 --> 01:44:19,199

across the universe

2117

01:44:26,270 --> 01:44:22,280

in a straight line

2118

01:44:30,830 --> 01:44:26,280

for a million years with one chair

2119

01:44:32,750 --> 01:44:30,840

now now that ship is going Flip Flip

2120

01:44:35,930 --> 01:44:32,760

that's it

2121

01:44:38,810 --> 01:44:35,940

uh let's see let's see here hold on

2122

01:44:41,290 --> 01:44:38,820

what's this what's this Lisa Lisa Davey

2123

01:44:44,870 --> 01:44:41,300

says I just realized this ship I saw was

2124

01:44:46,729 --> 01:44:44,880

gigantic it showed up one light at a

2125

01:44:51,709 --> 01:44:46,739

time but it was three lights and a

2126  
01:44:54,229 --> 01:44:51,719  
triangle shaped huge ship NorCal up in

2127  
01:44:56,090 --> 01:44:54,239  
big in Bear Valley oh I don't know where

2128  
01:44:59,209 --> 01:44:56,100  
Bear Valley is

2129  
01:45:01,370 --> 01:44:59,219  
I haven't seen my triangle yet well I

2130  
01:45:03,770 --> 01:45:01,380  
saw that one little one but but I

2131  
01:45:08,090 --> 01:45:03,780  
haven't seen I haven't seen my triangle

2132  
01:45:12,910 --> 01:45:08,100  
yet let's see I love this this is great

2133  
01:45:19,430 --> 01:45:16,370  
our sadness is aliens UFOs and spiritual

2134  
01:45:23,270 --> 01:45:19,440  
Space Warfare that's a good screen name

2135  
01:45:25,550 --> 01:45:23,280  
our set of quantum is at the bottom they

2136  
01:45:29,030 --> 01:45:25,560  
are there the others are the first

2137  
01:45:31,609 --> 01:45:29,040  
spiritual then the etheric is the next

2138  
01:45:33,109 --> 01:45:31,619

highest frequency range and that's

2139

01:45:41,030 --> 01:45:33,119

spiritual

2140

01:45:44,689 --> 01:45:43,310

you guys ever seen the movie AI I agree

2141

01:45:51,290 --> 01:45:44,699

with his aliens

2142

01:45:54,350 --> 01:45:52,189

um

2143

01:45:59,510 --> 01:45:54,360

what did that oh yeah uh have you guys

2144

01:46:04,729 --> 01:46:02,510

you know that's a Kubrick uh uh Steven

2145

01:46:07,189 --> 01:46:04,739

Spielberg production a Spielberg

2146

01:46:08,830 --> 01:46:07,199

finished it uh for Kubrick as he was at

2147

01:46:12,830 --> 01:46:08,840

the end of his life

2148

01:46:15,169 --> 01:46:12,840

the end of now ai the movie itself right

2149

01:46:19,010 --> 01:46:15,179

it's artificial intelligence the kid's a

2150

01:46:21,290 --> 01:46:19,020

robot doesn't know it and and or he is a

2151  
01:46:23,689 --> 01:46:21,300  
robot and he doesn't know it and Jude

2152  
01:46:26,450 --> 01:46:23,699  
Law is a robot but he doesn't know it or

2153  
01:46:27,830 --> 01:46:26,460  
maybe he does and they grow you know

2154  
01:46:31,910 --> 01:46:27,840  
they do the thing and it says life

2155  
01:46:34,490 --> 01:46:31,920  
journey together and and the Kid Robot

2156  
01:46:37,129 --> 01:46:34,500  
gets abandoned by his family left in the

2157  
01:46:39,109 --> 01:46:37,139  
woods it's heartbreaking you cry all

2158  
01:46:42,310 --> 01:46:39,119  
right and that that's the concept of the

2159  
01:46:45,169 --> 01:46:42,320  
movie and it's hard to watch the first

2160  
01:46:48,109 --> 01:46:45,179  
uh two hours of the movie but it's the

2161  
01:46:51,290 --> 01:46:48,119  
last 15 minutes that are so special

2162  
01:46:57,770 --> 01:46:54,830  
the kid the AI the bot

2163  
01:47:00,169 --> 01:46:57,780

he's in his uh his robot car and it

2164

01:47:04,129 --> 01:47:00,179

sings to the bottom of the ocean and and

2165

01:47:05,629 --> 01:47:04,139

uh you know near what looks like New

2166

01:47:08,689 --> 01:47:05,639

York or something like that but he's

2167

01:47:12,890 --> 01:47:08,699

dead I mean his batteries right and

2168

01:47:15,109 --> 01:47:12,900

right for thousands of years and earth

2169

01:47:18,830 --> 01:47:15,119

goes through this transformation and now

2170

01:47:23,810 --> 01:47:18,840

it's an ice age so what was a city above

2171

01:47:28,390 --> 01:47:23,820

is now uh uh Frozen under you know

2172

01:47:33,410 --> 01:47:30,109

E.T

2173

01:47:37,609 --> 01:47:33,420

checking out planet Earth right so you

2174

01:47:42,350 --> 01:47:40,129

the ship

2175

01:47:46,729 --> 01:47:42,360

I don't have anything like it

2176

01:47:51,770 --> 01:47:49,669

see this Cube It's like a dice do I have

2177

01:47:55,609 --> 01:47:51,780

a dice I have a dice

2178

01:47:58,189 --> 01:47:55,619

ship is a cube Square going across the

2179

01:47:59,930 --> 01:47:58,199

ice pulls up you see the skyscraper

2180

01:48:03,169 --> 01:47:59,940

sticking out you know the tops of the

2181

01:48:05,990 --> 01:48:03,179

skyscrapers out of the cube goes on down

2182

01:48:08,890 --> 01:48:06,000

in a crack in the ice and goes down down

2183

01:48:13,250 --> 01:48:08,900

down into the water

2184

01:48:15,830 --> 01:48:13,260

pulls up next to the the the car with

2185

01:48:16,970 --> 01:48:15,840

the with the AI kid

2186

01:48:19,729 --> 01:48:16,980

right

2187

01:48:22,310 --> 01:48:19,739

his batteries have worn down they rescue

2188

01:48:30,109 --> 01:48:25,209

they fire him back up

2189

01:48:34,490 --> 01:48:30,119

and and he sees E.T

2190

01:48:37,189 --> 01:48:34,500

and E.T is not

2191

01:48:43,310 --> 01:48:39,229

E.T

2192

01:48:45,350 --> 01:48:43,320

is energy now got a head got a body got

2193

01:48:46,729 --> 01:48:45,360

arms but you know it's it's this thing

2194

01:48:47,930 --> 01:48:46,739

it's this concept and I think that

2195

01:48:51,109 --> 01:48:47,940

Spielberg

2196

01:48:53,570 --> 01:48:51,119

had it on the money the ship is not some

2197

01:48:55,250 --> 01:48:53,580

crazy alien craft like Independence Day

2198

01:48:57,770 --> 01:48:55,260

it's a cube

2199

01:49:00,250 --> 01:48:57,780

to cube

2200

01:49:02,030 --> 01:49:00,260

ET is an energy being

2201

01:49:06,649 --> 01:49:02,040

and

2202

01:49:09,830 --> 01:49:06,659

he tells speaking with his mind

2203

01:49:12,950 --> 01:49:09,840

telepathically speaks to the AI kid says

2204

01:49:15,770 --> 01:49:12,960

so I can grant you a wish what what

2205

01:49:16,910 --> 01:49:15,780

would you like I can do one thing kid

2206

01:49:22,090 --> 01:49:16,920

says hey

2207

01:49:28,010 --> 01:49:26,149

and uh and and the way that uh you have

2208

01:49:30,649 --> 01:49:28,020

to go watch the movie and stuff

2209

01:49:33,729 --> 01:49:30,659

and and not to give anything away

2210

01:49:37,189 --> 01:49:33,739

but it's that concept

2211

01:49:39,050 --> 01:49:37,199

of what E.T is

2212

01:49:41,689 --> 01:49:39,060

and and the ship and everything else

2213

01:49:42,530 --> 01:49:41,699

that I think that Spielberg had it on

2214

01:49:44,209 --> 01:49:42,540

the money

2215

01:49:47,810 --> 01:49:44,219

so when

2216

01:49:50,090 --> 01:49:47,820

um uh space alien uh just made this

2217

01:49:53,090 --> 01:49:50,100

comment here about going up and it's

2218

01:49:55,790 --> 01:49:53,100

this and then it's spiritual and and you

2219

01:49:59,149 --> 01:49:55,800

know they could that's that's exactly

2220

01:50:03,470 --> 01:49:59,159

the way that Spielberg projected this

2221

01:50:05,870 --> 01:50:03,480

that these you know the ET has evolved

2222

01:50:08,209 --> 01:50:05,880

into the spiritual light being not not

2223

01:50:10,669 --> 01:50:08,219

me not evil not anything as a matter of

2224

01:50:12,950 --> 01:50:10,679

fact he meets up with this little robot

2225

01:50:15,229 --> 01:50:12,960

kid who he knows is a robot

2226

01:50:16,729 --> 01:50:15,239

says I'll Grant you a wish

2227

01:50:19,669 --> 01:50:16,739

what do you want

2228

01:50:21,830 --> 01:50:19,679

you know and and I I there's there's

2229

01:50:24,290 --> 01:50:21,840

something to that's it I'm not and if

2230

01:50:26,149 --> 01:50:24,300

you haven't seen it uh go and watch it

2231

01:50:28,729 --> 01:50:26,159

it's uh

2232

01:50:31,370 --> 01:50:28,739

it's just an amazing movie so

2233

01:50:33,530 --> 01:50:31,380

um alien what was your name

2234

01:50:35,570 --> 01:50:33,540

let me let me scroll back here what was

2235

01:50:40,370 --> 01:50:35,580

your name Alien light being two three

2236

01:50:45,229 --> 01:50:43,250

I'd kill for an oak Shannon shout out so

2237

01:50:49,370 --> 01:50:45,239

I can shoot some whiskey and call it a

2238

01:50:52,609 --> 01:50:49,380

night oh Shannon is the man

2239

01:50:53,990 --> 01:50:52,619

I've seen AI creepy movie I didn't think

2240

01:51:00,109 --> 01:50:54,000

it was creepy

2241

01:51:02,570 --> 01:51:00,119

um I gotta tell you I cried I cried

2242

01:51:03,950 --> 01:51:02,580

every time that first 10 minutes of the

2243

01:51:07,070 --> 01:51:03,960

movie

2244

01:51:09,669 --> 01:51:07,080

ripped me apart to the point where you

2245

01:51:13,490 --> 01:51:09,679

know what I was doing when I watched AI

2246

01:51:16,550 --> 01:51:13,500

fast forward the scene where she

2247

01:51:18,229 --> 01:51:16,560

she abandons her son in the woods and

2248

01:51:19,850 --> 01:51:18,239

runs away I can't see that I fast

2249

01:51:22,490 --> 01:51:19,860

forward and I wait for him to hook up

2250

01:51:24,530 --> 01:51:22,500

with Jude Law that's right

2251

01:51:26,930 --> 01:51:24,540

you haven't seen a try I've seen one

2252

01:51:31,010 --> 01:51:26,940

flying above me and at tree level no

2253

01:51:31,669 --> 01:51:31,020

sound at all no I haven't seen I no I

2254

01:51:34,010 --> 01:51:31,679

haven't

2255

01:51:35,450 --> 01:51:34,020

you know I've I photographed a triangle

2256

01:51:38,930 --> 01:51:35,460

I did know it was a triangle when I

2257

01:51:41,330 --> 01:51:38,940

photographed it but have I seen a

2258

01:51:44,810 --> 01:51:41,340

triangle no no

2259

01:51:47,270 --> 01:51:44,820

uh Jamie I'm I'm fully jealous uh with

2260

01:51:49,070 --> 01:51:47,280

that I have so many friends of mine that

2261

01:51:51,109 --> 01:51:49,080

that have talked about this I've told

2262

01:51:53,510 --> 01:51:51,119

you my neighbor kid

2263

01:51:54,890 --> 01:51:53,520

um Mikey had his sighting here in in

2264

01:51:58,189 --> 01:51:54,900

Palmdale

2265

01:51:59,810 --> 01:51:58,199

um but no I have not I've got this

2266

01:52:01,669 --> 01:51:59,820

vision

2267

01:52:05,149 --> 01:52:01,679

I've got this Vision I you know I'm

2268

01:52:06,970 --> 01:52:05,159

manifesting this I swear I have I've now

2269

01:52:11,270 --> 01:52:06,980

dreamed it I've thought about it so much

2270

01:52:13,310 --> 01:52:11,280

that uh I walk out on my upstairs patio

2271

01:52:17,030 --> 01:52:13,320

off of my bedroom

2272

01:52:19,189 --> 01:52:17,040

I walk outside at night and I look up

2273

01:52:21,830 --> 01:52:19,199

and then this black triangle flies over

2274

01:52:23,330 --> 01:52:21,840

the house I'm manifesting that it's

2275

01:52:26,629 --> 01:52:23,340

gonna happen

2276

01:52:30,530 --> 01:52:26,639

I'm manifesting it man I am I am working

2277

01:52:32,510 --> 01:52:30,540

this one the universe is uh is is is

2278

01:52:35,990 --> 01:52:32,520

gonna hook me up

2279

01:52:38,510 --> 01:52:36,000

let's see delicious flour I experienced

2280

01:52:41,090 --> 01:52:38,520

a low flying triangle over my car scared

2281

01:52:44,890 --> 01:52:41,100

me a lot it was huge wow where'd you see

2282

01:52:52,490 --> 01:52:48,410

yeah I have not Jimmy do you think let's

2283

01:52:54,770 --> 01:52:52,500

see this is from damn it Janet

2284

01:52:58,129 --> 01:52:54,780

um do you think that AI can become

2285

01:53:00,530 --> 01:52:58,139

sentient with emotions yeah yeah I think

2286

01:53:03,410 --> 01:53:00,540

it's right there right now

2287

01:53:05,090 --> 01:53:03,420

um have you guys done chat gbt have you

2288

01:53:07,370 --> 01:53:05,100

guys done that yet you guys check that

2289

01:53:10,990 --> 01:53:07,380

out all right well that's there that's

2290

01:53:14,090 --> 01:53:11,000

that's it's about to take your job

2291

01:53:16,850 --> 01:53:14,100

we uh

2292

01:53:19,490 --> 01:53:16,860

uh a movie came out in 2001 yeah I think

2293

01:53:21,890 --> 01:53:19,500

you're talking about AI

2294

01:53:23,810 --> 01:53:21,900

um let's see here what's this

2295

01:53:26,030 --> 01:53:23,820

stargazer

2296

01:53:30,109 --> 01:53:26,040

I've seen a big triangular craft they

2297

01:53:32,030 --> 01:53:30,119

are ours they can hover and they are

2298

01:53:34,850 --> 01:53:32,040

massive

2299

01:53:38,090 --> 01:53:34,860

um now I haven't I'm I'm waiting oh

2300

01:53:41,270 --> 01:53:38,100

zenzabel coming up with uh the AI facts

2301

01:53:43,729 --> 01:53:41,280

uh facts list here the screen play by

2302

01:53:47,750 --> 01:53:43,739

Spielberg and Screen Story by Ian Watson

2303

01:53:51,350 --> 01:53:47,760

were based on the 1969 short story super

2304

01:53:54,350 --> 01:53:51,360

toys last All Summer Long by Brian Aldis

2305

01:53:56,689 --> 01:53:54,360

all correct and then Kubrick got the

2306

01:53:58,570 --> 01:53:56,699

rights to it and he started working on

2307

01:54:01,430 --> 01:53:58,580

the production of it got sick

2308

01:54:04,609 --> 01:54:01,440

that was the whole story back then that

2309

01:54:06,530 --> 01:54:04,619

Kubrick's next movie is AI right and we

2310

01:54:08,810 --> 01:54:06,540

were all excited about it and that was

2311

01:54:11,930 --> 01:54:08,820

the secret project and he couldn't

2312

01:54:14,030 --> 01:54:11,940

finish it and he calls in Steve I

2313

01:54:15,709 --> 01:54:14,040

believe he reached out to Steve maybe

2314

01:54:17,689 --> 01:54:15,719

Steve reached out to him said hey man

2315

01:54:20,270 --> 01:54:17,699

are you uh you gonna be able to do this

2316

01:54:22,550 --> 01:54:20,280

and if not you know can I step in but

2317

01:54:26,209 --> 01:54:22,560

that's what happened and Kubrick handed

2318

01:54:30,050 --> 01:54:26,219

off the project uh to Spielberg so he

2319

01:54:31,550 --> 01:54:30,060

could finish it but yeah let's see

2320

01:54:34,070 --> 01:54:31,560

what's this

2321

01:54:36,420 --> 01:54:34,080

had my UFO sighting so terrifying

2322

01:54:42,050 --> 01:54:36,430

haven't been home for three years

2323

01:54:47,149 --> 01:54:45,109

let's see here this is great

2324

01:54:49,189 --> 01:54:47,159

my fiance saw a triangle at a telephone

2325

01:54:53,330 --> 01:54:49,199

pole height with all types of

2326

01:54:56,390 --> 01:54:53,340

hieroglyphics on it really see I I want

2327

01:54:58,490 --> 01:54:56,400

that siding I haven't had that sighting

2328

01:55:01,609 --> 01:54:58,500

I haven't had that sighting the the best

2329

01:55:03,950 --> 01:55:01,619

I mean the daylight the beer can uh that

2330

01:55:08,149 --> 01:55:03,960

was crazy but it was 14 miles away it

2331

01:55:10,729 --> 01:55:08,159

was big uh but uh yeah who knows what

2332

01:55:12,470 --> 01:55:10,739

was written on the side of that let's

2333

01:55:14,930 --> 01:55:12,480

see Carol Ann I'm getting everybody

2334

01:55:16,970 --> 01:55:14,940

coming in with their side exam 1956

2335

01:55:19,250 --> 01:55:16,980

London England my cousin and I playing

2336

01:55:21,290 --> 01:55:19,260

badminton Over the Garden Wall he had a

2337

01:55:25,970 --> 01:55:21,300

daylight sighting of UFO hung in the sky

2338

01:55:28,669 --> 01:55:25,980

for 15 minutes no sound and winked out

2339

01:55:30,590 --> 01:55:28,679

let's see here Joe

2340

01:55:33,290 --> 01:55:30,600

Kryptonite when I first moved to Los

2341

01:55:35,689 --> 01:55:33,300

Angeles I went to go to Cal State

2342

01:55:38,450 --> 01:55:35,699

Northridge from Chicago I was on a

2343

01:55:40,550 --> 01:55:38,460

rooftop and saw my first UFO bright

2344

01:55:43,669 --> 01:55:40,560

light up very high it would start moving

2345

01:55:45,350 --> 01:55:43,679

back and forth and and gone Cal State

2346

01:55:47,330 --> 01:55:45,360

Northridge one of the coolest colleges

2347

01:55:48,890 --> 01:55:47,340

in all of the United States and it's

2348

01:55:50,689 --> 01:55:48,900

right down the street

2349

01:55:56,689 --> 01:55:50,699

uh

2350

01:55:58,910 --> 01:55:56,699

Jimmy Doctor Gary Nolan said in a recent

2351

01:56:01,250 --> 01:55:58,920

interview on Event Horizon that the

2352

01:56:04,669 --> 01:56:01,260

advanced civilization here on Earth are

2353

01:56:06,590 --> 01:56:04,679

indifferent to us not good or bad all

2354

01:56:09,290 --> 01:56:06,600

right you guys want me to leak some

2355

01:56:12,709 --> 01:56:09,300

information for you are you guys ready

2356

01:56:16,070 --> 01:56:12,719

right here Fade to Black Monday night

2357

01:56:18,169 --> 01:56:16,080

Dr Gary Nolan yeah he's going to be with

2358

01:56:20,689 --> 01:56:18,179

us on Monday night so Matt we've got an

2359

01:56:25,790 --> 01:56:20,699

amazing week lined up next week too and

2360

01:56:28,129 --> 01:56:25,800

uh Monday night it is Dr Gary Nolan

2361

01:56:29,629 --> 01:56:28,139

timoth man

2362

01:56:32,090 --> 01:56:29,639

I saw what I think was the black

2363

01:56:34,910 --> 01:56:32,100

triangle at eye level traveling in front

2364

01:56:38,870 --> 01:56:34,920

of the mountains above Palm Desert and

2365

01:56:40,550 --> 01:56:38,880

it simply vanished broad daylight wow

2366

01:56:42,290 --> 01:56:40,560

everybody here has got black try I saw

2367

01:56:46,609 --> 01:56:42,300

two small triangles hooked together at

2368

01:56:48,350 --> 01:56:46,619

Treetop level near downtown Salida is

2369

01:56:50,270 --> 01:56:48,360

that Colorado

2370

01:56:57,350 --> 01:56:50,280

wow

2371

01:57:00,290 --> 01:56:57,360

everybody here

2372

01:57:02,450 --> 01:57:00,300

uh No One Believes what I saw and it

2373

01:57:06,109 --> 01:57:02,460

drives me mad

2374

01:57:08,750 --> 01:57:06,119

and this is great and uh yeah I haven't

2375

01:57:10,910 --> 01:57:08,760

had mine I'm manifesting it though that

2376

01:57:13,070 --> 01:57:10,920

thing's gonna happen yeah the the

2377

01:57:15,229 --> 01:57:13,080

universe is is just going to come back

2378

01:57:18,290 --> 01:57:15,239

to me and go yeah Church

2379

01:57:21,050 --> 01:57:18,300

uh it's about time yeah you need to uh

2380

01:57:23,589 --> 01:57:21,060

you need to experience this so with that

2381

01:57:29,350 --> 01:57:23,599

I'm gonna go start my weekend

2382

01:57:32,990 --> 01:57:29,360

and uh let's see Willow uh Yellowstone

2383

01:57:35,810 --> 01:57:33,000

Mythic quest uh tomorrow night been the

2384

01:57:37,370 --> 01:57:35,820

last two episodes of Rick and Morty

2385

01:57:38,810 --> 01:57:37,380

oh man

2386

01:57:40,729 --> 01:57:38,820

man so good

2387

01:57:43,129 --> 01:57:40,739

so there you go I'm gonna go start my

2388

01:57:46,609 --> 01:57:43,139

weekend and like I said I just leaked it

2389

01:57:48,350 --> 01:57:46,619

Monday right here Dr Gary Nolan right

2390

01:57:50,030 --> 01:57:48,360

here on Fade to Black we got a great

2391

01:57:52,070 --> 01:57:50,040

week lined up next week Fade to Black is

2392

01:57:54,410 --> 01:57:52,080

produced by LJ Palm Renee Dennis and

2393

01:57:56,589 --> 01:57:54,420

Kevin webmaster is true the geek music

2394

01:57:59,390 --> 01:57:56,599

Doug Aldridge intro space boys

2395

01:58:01,430 --> 01:57:59,400

spaceboymusic.com fade to black is

2396

01:58:03,410 --> 01:58:01,440

produced by kjcr for the game changer

2397

01:58:06,530 --> 01:58:03,420

Network and this broadcast is owned and

2398

01:58:08,390 --> 01:58:06,540

copyrighted 2022 by Fade to Black and

2399

01:58:10,250 --> 01:58:08,400

The Game Changer networking it cannot be

2400

01:58:11,990 --> 01:58:10,260

rebroadcast downloaded copied or use

2401

01:58:13,970 --> 01:58:12,000

anywhere in the known universe without

2402

01:58:15,950 --> 01:58:13,980

written permission from Fade to Black or

2403

01:58:19,070 --> 01:58:15,960

the game changer Network everybody have

2404

01:58:20,689 --> 01:58:19,080

a great safe fun amazing weekend

2405

01:58:22,550 --> 01:58:20,699

I'll see you on Monday right here with

2406

01:58:24,830 --> 01:58:22,560

Dr Gary Nolan

2407

01:58:31,180 --> 01:58:24,840

be safe