



FADE to BLACK

host: Jimmy Church : w/ Rick DeLano

1
00:02:21,140 --> 00:02:32,070

[Music]

2
00:02:36,390 --> 00:02:33,430

the smoke radio

3
00:02:37,990 --> 00:02:36,400

for the masses headline editing july 8th

4
00:02:39,830 --> 00:02:38,000

1947

5
00:02:42,309 --> 00:02:39,840

the army air forces has announced that a

6
00:02:43,990 --> 00:02:42,319

flying disk has been found and is now in

7
00:02:46,710 --> 00:02:44,000

the possession of the army

8
00:02:48,710 --> 00:02:46,720

if the game is rigged change the game

9
00:02:51,830 --> 00:02:48,720

game changer

10
00:02:53,910 --> 00:02:51,840

i occasionally think how quickly our

11
00:02:56,949 --> 00:02:53,920

differences worldwide

12
00:02:57,670 --> 00:02:56,959

would vanish if we were facing an alien

13
00:03:04,070 --> 00:02:57,680

threat

14

00:03:06,869 --> 00:03:04,080

from outside this world

15

00:03:07,990 --> 00:03:06,879

this is fade to black with your host

16

00:03:10,550 --> 00:03:08,000

jimmy church

17

00:03:11,589 --> 00:03:10,560

on the game changer radio network and

18

00:03:16,470 --> 00:03:11,599

kgra

19

00:03:25,509 --> 00:03:19,470

i need your help to get to the year

20

00:03:33,540 --> 00:03:27,509

you are listening to fate to flag with

21

00:03:41,509 --> 00:03:33,550

jimmy church on the game changer network

22

00:03:47,990 --> 00:03:41,519

[Music]

23

00:03:57,670 --> 00:03:52,470

bespoke radio for

24

00:04:02,950 --> 00:04:02,070

yeah how you doing how you doing

25

00:04:08,229 --> 00:04:02,960

yeah let's do this

26

00:04:12,830 --> 00:04:08,239

[Music]

27

00:04:16,150 --> 00:04:12,840

today is tuesday november 17 2020.

28

00:04:20,469 --> 00:04:16,160

322 days into the new year just

29

00:04:21,990 --> 00:04:20,479

44 days left we are live from a bunker

30

00:04:25,909 --> 00:04:22,000

a bunker that is somewhere in the middle

31

00:04:27,510 --> 00:04:25,919

of beautiful downtown burbank california

32

00:04:29,270 --> 00:04:27,520

and i would like to welcome everybody

33

00:04:33,430 --> 00:04:29,280

listening all around the world

34

00:04:35,270 --> 00:04:33,440

all across the united states

35

00:04:37,270 --> 00:04:35,280

hither and tether to and fro back and

36

00:04:38,310 --> 00:04:37,280

forth up and down east and west north

37

00:04:43,350 --> 00:04:38,320

and south far

38

00:04:45,909 --> 00:04:43,360

and near this is fade to black for kjcr

39

00:04:48,070 --> 00:04:45,919

the game changer network and kgra the

40

00:04:51,030 --> 00:04:48,080

planets

41

00:04:53,270 --> 00:04:51,040

i'm your host jimmy church what is

42

00:04:54,950 --> 00:04:53,280

cracking everybody how you doing how are

43

00:04:59,590 --> 00:04:54,960

you doing

44

00:05:01,510 --> 00:04:59,600

all right what a great week on the show

45

00:05:03,350 --> 00:05:01,520

absolutely incredible dave schrader last

46

00:05:05,909 --> 00:05:03,360

night tonight

47

00:05:08,629 --> 00:05:05,919

rick delano is here first time guest get

48

00:05:09,670 --> 00:05:08,639

ready for that

49

00:05:12,230 --> 00:05:09,680

we're going gonna be talking about

50

00:05:15,270 --> 00:05:12,240

rick's new film and it's a hit

51
00:05:19,029 --> 00:05:15,280
it's really good it's called

52
00:05:21,670 --> 00:05:19,039
the end of quantum reality

53
00:05:23,270 --> 00:05:21,680
okay now the links for the film and

54
00:05:24,510 --> 00:05:23,280
everything that you need to

55
00:05:27,029 --> 00:05:24,520
see are right there at

56
00:05:27,670 --> 00:05:27,039
jimmychurchradio.com and uh you can go

57
00:05:30,469 --> 00:05:27,680
and click

58
00:05:32,469 --> 00:05:30,479
and and find out how to go and see this

59
00:05:34,310 --> 00:05:32,479
video on demand so it's uh you know i

60
00:05:36,550 --> 00:05:34,320
watched it on amazon

61
00:05:37,590 --> 00:05:36,560
and uh absolutely incredible film i was

62
00:05:40,230 --> 00:05:37,600
telling rick

63
00:05:40,870 --> 00:05:40,240

um earlier today i hope i don't repeat

64

00:05:44,629 --> 00:05:40,880

myself

65

00:05:46,469 --> 00:05:44,639

uh later on in the show but a film pops

66

00:05:48,310 --> 00:05:46,479

up it's right there it's a new release

67

00:05:50,230 --> 00:05:48,320

and i'm reading the description i'm like

68

00:05:53,350 --> 00:05:50,240

what

69

00:05:55,909 --> 00:05:53,360

okay here we go

70

00:05:57,189 --> 00:05:55,919

and uh watched the film ended up

71

00:06:00,309 --> 00:05:57,199

watching it twice but

72

00:06:01,189 --> 00:06:00,319

um watching the film and and i want you

73

00:06:04,390 --> 00:06:01,199

to consider

74

00:06:07,749 --> 00:06:04,400

everything that i seem to

75

00:06:11,430 --> 00:06:07,759

repeat on the show over and over

76

00:06:14,550 --> 00:06:11,440

again and i've done it for years

77

00:06:15,990 --> 00:06:14,560

and that is i think that one of the i'm

78

00:06:17,029 --> 00:06:16,000

going to speak about this in a minute

79

00:06:20,309 --> 00:06:17,039

but one of the things

80

00:06:22,230 --> 00:06:20,319

that is out there and it bothers me is

81

00:06:24,230 --> 00:06:22,240

you have science hardcore science and

82

00:06:27,830 --> 00:06:24,240

you have spirituality and

83

00:06:30,070 --> 00:06:27,840

which is the the majority of the world

84

00:06:32,469 --> 00:06:30,080

right and then you have science and

85

00:06:36,309 --> 00:06:32,479

they're just on a collision course

86

00:06:38,309 --> 00:06:36,319

but you don't see it spoken about

87

00:06:40,629 --> 00:06:38,319

or talked about and and you've got to

88

00:06:42,790 --> 00:06:40,639

see at the end of quantum reality it's

89

00:06:44,390 --> 00:06:42,800

everything we'll be uh speaking with

90

00:06:47,270 --> 00:06:44,400

rick about this later on

91

00:06:48,629 --> 00:06:47,280

and it's uh it's just an amazing film

92

00:06:50,230 --> 00:06:48,639

and uh

93

00:06:51,990 --> 00:06:50,240

and who it's about what it's about in

94

00:06:53,990 --> 00:06:52,000

the journey that has evolved it's

95

00:06:56,390 --> 00:06:54,000

just incredible tomorrow night right

96

00:06:59,270 --> 00:06:56,400

here stephen bassett

97

00:07:00,070 --> 00:06:59,280

stephen bassett is going to discuss the

98

00:07:03,270 --> 00:07:00,080

upcoming

99

00:07:03,670 --> 00:07:03,280

new biden administration it's going to

100

00:07:08,230 --> 00:07:03,680

be

101
00:07:10,870 --> 00:07:08,240
sworn in on january 20th 2021

102
00:07:13,029 --> 00:07:10,880
and what their position on disclosure

103
00:07:13,670 --> 00:07:13,039
and the ufo question will be moving

104
00:07:15,990 --> 00:07:13,680
forward

105
00:07:17,430 --> 00:07:16,000
into 2021 what's gonna happen what does

106
00:07:19,990 --> 00:07:17,440
steve think

107
00:07:20,550 --> 00:07:20,000
uh about this very very important

108
00:07:22,790 --> 00:07:20,560
subject

109
00:07:24,230 --> 00:07:22,800
steve of course is live from washington

110
00:07:28,070 --> 00:07:24,240
dc

111
00:07:31,510 --> 00:07:28,080
and uh spoke to him over the weekend uh

112
00:07:32,230 --> 00:07:31,520
you know when these uh uh marches were

113
00:07:35,510 --> 00:07:32,240

going on

114

00:07:37,430 --> 00:07:35,520

in washington dc on saturday and he goes

115

00:07:39,830 --> 00:07:37,440

man i'm looking out my window i was like

116

00:07:41,510 --> 00:07:39,840

really i think he i think he might have

117

00:07:43,589 --> 00:07:41,520

ventured out

118

00:07:45,270 --> 00:07:43,599

i'm gonna find out about that tomorrow

119

00:07:45,830 --> 00:07:45,280

night all right so stephen bassett is

120

00:07:48,309 --> 00:07:45,840

here

121

00:07:49,909 --> 00:07:48,319

and then of course thursday night is

122

00:07:53,029 --> 00:07:49,919

fader night with open lines

123

00:07:54,710 --> 00:07:53,039

all night long all right i told you uh

124

00:07:56,790 --> 00:07:54,720

some of the late breaking news

125

00:07:58,710 --> 00:07:56,800

about billy carson what he's got going

126

00:08:00,790 --> 00:07:58,720

on he's got a new book coming out

127

00:08:02,150 --> 00:08:00,800

uh he's got a remote viewing seminar

128

00:08:05,510 --> 00:08:02,160

coming up

129

00:08:06,070 --> 00:08:05,520

uh he's got a movie uh documentary on

130

00:08:19,830 --> 00:08:06,080

the

131

00:08:20,469 --> 00:08:19,840

on that uh i got a couple of film

132

00:08:22,390 --> 00:08:20,479

projects

133

00:08:23,749 --> 00:08:22,400

right now that i'm working on can't talk

134

00:08:26,550 --> 00:08:23,759

about yet

135

00:08:28,309 --> 00:08:26,560

i want to tell the world about what's

136

00:08:30,869 --> 00:08:28,319

going on but i can't do it

137

00:08:31,589 --> 00:08:30,879

i can't do it all right yeah it's it's

138

00:08:37,829 --> 00:08:31,599

kind of

139

00:08:40,389 --> 00:08:37,839

which now i've done so much of that but

140

00:08:42,949 --> 00:08:40,399

uh you know so you kind of

141

00:08:45,110 --> 00:08:42,959

you you get that out of the way and it's

142

00:08:48,310 --> 00:08:45,120

like okay cool been there done that

143

00:08:51,829 --> 00:08:48,320

and then moving into film totally cool

144

00:08:53,509 --> 00:08:51,839

totally totally cool so i'll uh i'll

145

00:08:56,710 --> 00:08:53,519

talk more about it when i can

146

00:08:59,750 --> 00:08:56,720

okay um but billy carson

147

00:09:02,389 --> 00:08:59,760

forbidden knowledge dot tv his new

148

00:09:03,910 --> 00:09:02,399

uh internet tv network which you can go

149

00:09:06,630 --> 00:09:03,920

and sign up for

150

00:09:09,030 --> 00:09:06,640

and i believe it's all on it's on all of

151
00:09:11,190 --> 00:09:09,040
the video on demand platforms now

152
00:09:12,710 --> 00:09:11,200
um but head over to forbidden knowledge

153
00:09:14,550 --> 00:09:12,720
dot tv get signed up

154
00:09:16,230 --> 00:09:14,560
first three days trial membership you

155
00:09:19,430 --> 00:09:16,240
can go and check it out right now

156
00:09:21,110 --> 00:09:19,440
he's got thousands of programs up there

157
00:09:23,110 --> 00:09:21,120
some of them i'm in

158
00:09:24,070 --> 00:09:23,120
yeah so go peep it out check it out let

159
00:09:25,030 --> 00:09:24,080
me know what you think all right

160
00:09:28,550 --> 00:09:25,040
forbidden knowledge

161
00:09:28,870 --> 00:09:28,560
tv and of course crystal skulls you know

162
00:09:31,670 --> 00:09:28,880
what

163
00:09:33,590 --> 00:09:31,680

one of the things i like to do every day

164

00:09:36,310 --> 00:09:33,600

i come into the bunker

165

00:09:38,310 --> 00:09:36,320

this is can i just you know one of my

166

00:09:41,670 --> 00:09:38,320

little secret pleasures

167

00:09:44,870 --> 00:09:41,680

is i i go and look at crystal skulls

168

00:09:47,750 --> 00:09:44,880

i go over to carolyn ford's website

169

00:09:49,350 --> 00:09:47,760

and i'm just clicking it is one of the

170

00:09:51,110 --> 00:09:49,360

funnest things you can do just head

171

00:09:54,310 --> 00:09:51,120

straight into her store

172

00:09:56,150 --> 00:09:54,320

and click and she does really

173

00:09:58,230 --> 00:09:56,160

great photography so you get to see

174

00:10:00,630 --> 00:09:58,240

every and her site is so well done

175

00:10:02,389 --> 00:10:00,640

but you get to go and do that and she

176
00:10:03,430 --> 00:10:02,399
has got such a huge inventory and it's

177
00:10:04,949 --> 00:10:03,440
always

178
00:10:06,550 --> 00:10:04,959
being updated it's one of my favorite

179
00:10:08,350 --> 00:10:06,560
things to do so all you have to do is go

180
00:10:09,750 --> 00:10:08,360
to

181
00:10:11,509 --> 00:10:09,760
einsteinthecrystalskull.com the links

182
00:10:13,430 --> 00:10:11,519
are over at jimmychurchradio.com

183
00:10:14,550 --> 00:10:13,440
use the promo code jimmy that's all you

184
00:10:17,670 --> 00:10:14,560
got to do 10

185
00:10:18,470 --> 00:10:17,680
off of your next crystal skull maybe

186
00:10:20,870 --> 00:10:18,480
your first

187
00:10:22,310 --> 00:10:20,880
crystal skull einstein the crystal

188
00:10:23,990 --> 00:10:22,320

skull.com

189

00:10:25,430 --> 00:10:24,000

every time i mention it i always turn

190

00:10:27,590 --> 00:10:25,440

around and go look look look

191

00:10:28,630 --> 00:10:27,600

look what i've got here one two three

192

00:10:31,990 --> 00:10:28,640

four five six

193

00:10:35,990 --> 00:10:32,000

seven eight nine 10 11 12 13 14

194

00:10:39,750 --> 00:10:36,000

15 16 17 18 crystal skulls

195

00:10:44,829 --> 00:10:42,870

yeah don't you want one of those

196

00:10:47,829 --> 00:10:44,839

i mean what's a cool one look at this

197

00:10:51,430 --> 00:10:47,839

one

198

00:10:56,069 --> 00:10:51,440

this his name is anton

199

00:10:59,350 --> 00:10:56,079

look at that i mean right

200

00:11:02,790 --> 00:10:59,360

just absolutely incredible you

201

00:11:04,110 --> 00:11:02,800

want one of these come on

202

00:11:06,550 --> 00:11:04,120

you know you do einstein the

203

00:11:09,829 --> 00:11:06,560

crystalskull.com follow me on twitter

204

00:11:11,670 --> 00:11:09,839

at j church radio at j church radio

205

00:11:13,269 --> 00:11:11,680

sandbox is right in front of me i'm

206

00:11:16,870 --> 00:11:13,279

watching all of the posts

207

00:11:20,069 --> 00:11:16,880

i disagree biden will not be sworn

208

00:11:24,230 --> 00:11:20,079

in he is not the president

209

00:11:27,960 --> 00:11:24,240

you go madeline stay the course

210

00:11:30,230 --> 00:11:27,970

stay the course believe believe

211

00:11:34,470 --> 00:11:30,240

[Laughter]

212

00:11:36,949 --> 00:11:34,480

believe i you know hey hey uh

213

00:11:39,030 --> 00:11:36,959

it's it's funny that that whole thing

214

00:11:41,910 --> 00:11:39,040

that's going on right now

215

00:11:43,670 --> 00:11:41,920

is is just crazy town i made a i don't

216

00:11:47,190 --> 00:11:43,680

do politics on the show but i

217

00:11:49,670 --> 00:11:47,200

i made this uh statement earlier today

218

00:11:51,430 --> 00:11:49,680

and can i just say something i want

219

00:11:55,190 --> 00:11:51,440

everybody to just listen to me for a

220

00:11:55,200 --> 00:11:58,790

cut the crap out

221

00:12:03,269 --> 00:12:02,150

cut it out i'm an american i was born

222

00:12:05,269 --> 00:12:03,279

here

223

00:12:06,710 --> 00:12:05,279

and i believe in america i believe in

224

00:12:10,230 --> 00:12:06,720

the people that

225

00:12:13,990 --> 00:12:10,240

vote and i believe in the system

226

00:12:16,389 --> 00:12:14,000

i always have and every four years

227

00:12:17,509 --> 00:12:16,399

we go through this drama every four

228

00:12:20,230 --> 00:12:17,519

years

229

00:12:21,030 --> 00:12:20,240

somebody's bummed out oh man he's not my

230

00:12:24,389 --> 00:12:21,040

prezzo then

231

00:12:26,550 --> 00:12:24,399

oh man we lost i can't stay right we go

232

00:12:28,870 --> 00:12:26,560

through it every four years

233

00:12:30,470 --> 00:12:28,880

every four years and every four years

234

00:12:31,030 --> 00:12:30,480

and i've done this since i was a kid i'm

235

00:12:33,190 --> 00:12:31,040

just like

236

00:12:35,190 --> 00:12:33,200

okay all right so we're gonna do this

237

00:12:37,590 --> 00:12:35,200

again in four more years okay

238

00:12:38,710 --> 00:12:37,600

four more years of you know in four more

239

00:12:41,110 --> 00:12:38,720

years

240

00:12:41,829 --> 00:12:41,120

oh man are you kidding me you're voting

241

00:12:44,150 --> 00:12:41,839

for you

242

00:12:45,990 --> 00:12:44,160

you like are you kidding me and we go

243

00:12:47,350 --> 00:12:46,000

through this over and over again but you

244

00:12:49,509 --> 00:12:47,360

know what

245

00:12:50,470 --> 00:12:49,519

we're all different and in the end we're

246

00:12:53,750 --> 00:12:50,480

all americans

247

00:12:57,030 --> 00:12:53,760

and every four years we just

248

00:12:59,269 --> 00:12:57,040

accept it that's what we do so

249

00:13:00,550 --> 00:12:59,279

what i'm gonna go through it again in

250

00:13:06,389 --> 00:13:00,560

four more years

251

00:13:08,150 --> 00:13:06,399

quit stressing out who gives a crap

252

00:13:10,230 --> 00:13:08,160

man i mean you know think about

253

00:13:13,430 --> 00:13:10,240

everything that went down 2016.

254

00:13:15,750 --> 00:13:13,440

right we're still here

255

00:13:17,590 --> 00:13:15,760

we're still you accepted to move on

256

00:13:20,870 --> 00:13:17,600

accepted to move on 2020

257

00:13:23,990 --> 00:13:20,880

accept it and move on that's

258

00:13:25,430 --> 00:13:24,000

it oh man what are you gonna do in four

259

00:13:27,670 --> 00:13:25,440

more years four more years you're gonna

260

00:13:29,030 --> 00:13:27,680

run your life on this get over it we're

261

00:13:30,949 --> 00:13:29,040

americans first

262

00:13:32,629 --> 00:13:30,959

being different is what makes this

263

00:13:34,949 --> 00:13:32,639

country so great

264

00:13:36,230 --> 00:13:34,959

don't let anybody tell you it's us

265

00:13:37,509 --> 00:13:36,240

versus them

266

00:13:39,990 --> 00:13:37,519

because that's somebody that's an

267

00:13:40,790 --> 00:13:40,000

american wants to divide this country

268

00:13:43,189 --> 00:13:40,800

what do you want to do

269

00:13:44,710 --> 00:13:43,199

burn this place down is that what you

270

00:13:47,750 --> 00:13:44,720

want

271

00:13:48,310 --> 00:13:47,760

stop it a bunch of crap just done with

272

00:13:51,829 --> 00:13:48,320

it

273

00:13:59,269 --> 00:13:55,590

i am d-o-n-e

274

00:14:03,110 --> 00:13:59,279

done all right am i clear

275

00:14:05,430 --> 00:14:03,120

fader knots all right

276

00:14:07,590 --> 00:14:05,440

moving on let's go i don't do politics

277

00:14:08,550 --> 00:14:07,600

on the show i do conspiracy of politics

278

00:14:12,230 --> 00:14:08,560

like

279

00:14:15,030 --> 00:14:12,240

that crazy video today of uh

280

00:14:16,550 --> 00:14:15,040

lindsey graham fist bumping kamala

281

00:14:20,150 --> 00:14:16,560

harris

282

00:14:21,189 --> 00:14:20,160

looks like what after all the smack talk

283

00:14:23,030 --> 00:14:21,199

from both of them

284

00:14:24,629 --> 00:14:23,040

right after all that they just walked by

285

00:14:26,550 --> 00:14:24,639

what's up

286

00:14:27,750 --> 00:14:26,560

he passed around the back and that

287

00:14:30,069 --> 00:14:27,760

should tell everybody

288

00:14:31,990 --> 00:14:30,079

everybody out there everybody on the

289

00:14:35,189 --> 00:14:32,000

right talking that smack

290

00:14:40,150 --> 00:14:35,199

everybody on the left talking that smack

291

00:14:48,470 --> 00:14:44,710

is what they're both traitors

292

00:14:52,150 --> 00:14:48,480

oh man you gotta love it uh

293

00:14:55,910 --> 00:14:52,160

okay all right

294

00:14:57,189 --> 00:14:55,920

where am i at well whoever it is i hope

295

00:14:58,629 --> 00:14:57,199

they focus

296

00:15:00,470 --> 00:14:58,639

on the damn virus yeah you're right

297

00:15:04,550 --> 00:15:00,480

about that tara

298

00:15:07,670 --> 00:15:04,560

uh we got we got issues we got issues

299

00:15:10,389 --> 00:15:07,680

we got issues unemployment health family

300

00:15:12,870 --> 00:15:10,399

you know uh i was um you know what

301

00:15:16,949 --> 00:15:12,880

talking about a conspiracy

302

00:15:20,230 --> 00:15:16,959

i went through i did uh

303

00:15:21,750 --> 00:15:20,240

i don't know 15 years ago 14 years ago i

304

00:15:24,829 --> 00:15:21,760

went back to school

305

00:15:25,990 --> 00:15:24,839

uh for for broadcast news sports

306

00:15:27,509 --> 00:15:26,000

journalism

307

00:15:29,829 --> 00:15:27,519

and i went back to school cost me a lot

308

00:15:33,590 --> 00:15:29,839

of money and

309

00:15:35,910 --> 00:15:33,600

uh if i

310

00:15:37,430 --> 00:15:35,920

right now okay we have two daughters one

311

00:15:40,230 --> 00:15:37,440

is still in college one just

312

00:15:42,150 --> 00:15:40,240

graduated and is in in you know out

313

00:15:43,910 --> 00:15:42,160

there doing her thing now

314

00:15:46,629 --> 00:15:43,920

uh both are the same age one is still in

315

00:15:49,910 --> 00:15:46,639

college let me tell you something

316

00:15:51,910 --> 00:15:49,920

if i had a child right now

317

00:15:53,990 --> 00:15:51,920

that had a student loan especially one

318

00:15:55,910 --> 00:15:54,000

that i signed on i'm talking about

319

00:15:58,710 --> 00:15:55,920

the millions of families across this

320

00:16:01,030 --> 00:15:58,720

country and you're

321

00:16:02,710 --> 00:16:01,040

signing off you know 35 grand a year 40

322

00:16:09,269 --> 00:16:02,720

grand a year

323

00:16:12,470 --> 00:16:09,279

high interest rates and your student

324

00:16:13,910 --> 00:16:12,480

your daughter your son hasn't been in

325

00:16:16,550 --> 00:16:13,920

college

326

00:16:18,470 --> 00:16:16,560

because of coronavirus and those loans

327

00:16:21,749 --> 00:16:18,480

are coming due

328

00:16:24,790 --> 00:16:21,759

ah no it don't work that way

329

00:16:25,189 --> 00:16:24,800

i'm not spending 30 grand a year for

330

00:16:29,269 --> 00:16:25,199

them

331

00:16:36,389 --> 00:16:33,189

it's like phoenix university

332

00:16:38,389 --> 00:16:36,399

god oh is that what it's called what was

333

00:16:39,030 --> 00:16:38,399

that what's that online you buy your

334

00:16:42,870 --> 00:16:39,040

diploma

335

00:16:44,790 --> 00:16:42,880

college whatever it is

336

00:16:47,269 --> 00:16:44,800

so something needs to be done about that

337

00:16:50,310 --> 00:16:47,279

that that i want to hear

338

00:16:53,269 --> 00:16:50,320

somebody step up and go okay

339

00:16:54,230 --> 00:16:53,279

we recognize this that's a conspiracy

340

00:16:56,629 --> 00:16:54,240

man

341

00:16:57,910 --> 00:16:56,639

that's a that's a conspiracy that is

342

00:17:01,269 --> 00:16:57,920

just breaking the law

343

00:17:03,030 --> 00:17:01,279

stealing money that's what that is

344

00:17:04,390 --> 00:17:03,040

all right moving on where am i let's get

345

00:17:05,350 --> 00:17:04,400

to the breaking news the world of

346

00:17:09,990 --> 00:17:05,360

minerals

347

00:17:13,669 --> 00:17:10,000

these things right here the world

348

00:17:16,710 --> 00:17:13,679

of minerals just got it as wild as

349

00:17:18,789 --> 00:17:16,720

the world of animals because they do

350

00:17:21,029 --> 00:17:18,799

discover new stuff once in a while and

351
00:17:23,510 --> 00:17:21,039
they just did a research team

352
00:17:24,630 --> 00:17:23,520
led by crystallographer there was such a

353
00:17:27,750 --> 00:17:24,640
thing

354
00:17:29,909 --> 00:17:27,760
stanislav affilitov at st petersburg

355
00:17:31,750 --> 00:17:29,919
university in russia

356
00:17:33,029 --> 00:17:31,760
found a new entry into the world of

357
00:17:36,710 --> 00:17:33,039
minerals and they are

358
00:17:39,350 --> 00:17:36,720
calling it petrovite

359
00:17:41,270 --> 00:17:39,360
the bright blue mineral it's gorgeous by

360
00:17:42,150 --> 00:17:41,280
the way it's kind of like they're saying

361
00:17:45,590 --> 00:17:42,160
it's bright blue

362
00:17:49,029 --> 00:17:45,600
i'm going like seafoam green

363
00:17:49,750 --> 00:17:49,039

sky blue like right in there the images

364

00:17:52,390 --> 00:17:49,760

that i've seen

365

00:17:54,710 --> 00:17:52,400

are very very cool it comes from a

366

00:17:55,909 --> 00:17:54,720

volcanic landscape formed by major

367

00:17:59,909 --> 00:17:55,919

eruptions

368

00:18:02,950 --> 00:17:59,919

in the late 1970s and once again in the

369

00:18:06,070 --> 00:18:02,960

2010s in the kamchatka peninsula

370

00:18:08,070 --> 00:18:06,080

of russia the mineral is named for

371

00:18:10,150 --> 00:18:08,080

another saint petersburg university

372

00:18:12,789 --> 00:18:10,160

crystallographer his name is tomas

373

00:18:14,390 --> 00:18:12,799

petrov the team has just published a

374

00:18:17,750 --> 00:18:14,400

study on petrovite

375

00:18:20,870 --> 00:18:17,760

in the journal of uh uh

376

00:18:23,990 --> 00:18:20,880

uh mineralogical magazine

377

00:18:26,789 --> 00:18:24,000

say that 10 times there you go

378

00:18:28,070 --> 00:18:26,799

it's really cool maybe got to talk to

379

00:18:30,630 --> 00:18:28,080

carolyn ford

380

00:18:32,150 --> 00:18:30,640

get me a petrov hey there it is right

381

00:18:35,350 --> 00:18:32,160

there look at that

382

00:18:36,070 --> 00:18:35,360

see am i wrong about the color it's kind

383

00:18:38,630 --> 00:18:36,080

of like

384

00:18:39,750 --> 00:18:38,640

seafoam green it's the color of that

385

00:18:42,549 --> 00:18:39,760

guitar right there

386

00:18:43,190 --> 00:18:42,559

that seafoam green it's exactly the

387

00:18:45,990 --> 00:18:43,200

color

388

00:18:46,870 --> 00:18:46,000

yeah it's not sky blue sea foam green i

389

00:18:48,870 --> 00:18:46,880

want one of those

390

00:18:50,150 --> 00:18:48,880

i want a crystal skull i gotta talk to

391

00:18:53,430 --> 00:18:50,160

uh

392

00:18:56,549 --> 00:18:53,440

carolyn ford petrovite

393

00:18:59,909 --> 00:18:56,559

petrovite all right where

394

00:19:02,950 --> 00:18:59,919

am i at uh let's see

395

00:19:05,830 --> 00:19:02,960

oh oh i talked to rita about this we

396

00:19:07,190 --> 00:19:05,840

are shopping for telescopes right now

397

00:19:08,950 --> 00:19:07,200

don't want to spend a whole lot couple

398

00:19:09,669 --> 00:19:08,960

hundred bucks you know no big deal just

399

00:19:11,110 --> 00:19:09,679

something

400

00:19:12,789 --> 00:19:11,120

to check out you know because we're in

401
00:19:13,750 --> 00:19:12,799
the backyard we're looking and we you

402
00:19:15,430 --> 00:19:13,760
know just just get

403
00:19:16,789 --> 00:19:15,440
something not going to spend a ton of

404
00:19:22,230 --> 00:19:16,799
money on it but

405
00:19:25,190 --> 00:19:22,240
uh this week you will be able to see

406
00:19:25,669 --> 00:19:25,200
seven planets at various points in the

407
00:19:28,549 --> 00:19:25,679
sky

408
00:19:30,230 --> 00:19:28,559
at the same time venus and mercury i'm

409
00:19:31,909 --> 00:19:30,240
talking about in the same day venus and

410
00:19:32,710 --> 00:19:31,919
mercury are bright enough to see in the

411
00:19:35,669 --> 00:19:32,720
mornings

412
00:19:36,230 --> 00:19:35,679
while mars jupiter neptune and saturn

413
00:19:39,669 --> 00:19:36,240

will be

414

00:19:43,029 --> 00:19:39,679

seen at night and there is rumors that

415

00:19:46,390 --> 00:19:43,039

uranus say it as you will will

416

00:19:49,270 --> 00:19:46,400

also be visible all right all right now

417

00:19:51,110 --> 00:19:49,280

uh earth sky i use that website

418

00:19:52,230 --> 00:19:51,120

published a guide to viewing all of the

419

00:19:54,470 --> 00:19:52,240

planets

420

00:19:57,750 --> 00:19:54,480

on their website let's get the show

421

00:20:01,909 --> 00:19:57,760

cracking happy birthday to today

422

00:20:04,950 --> 00:20:01,919

martin scorsese today

423

00:20:07,350 --> 00:20:04,960

78 man

424

00:20:08,710 --> 00:20:07,360

too many great films yeah just just too

425

00:20:12,390 --> 00:20:08,720

many that's it

426

00:20:17,350 --> 00:20:12,400

martin scorsese today 78 danny devito

427

00:20:19,350 --> 00:20:17,360

today 76 get shorty

428

00:20:21,590 --> 00:20:19,360

one flew over the cuckoo's nest that's

429

00:20:25,430 --> 00:20:21,600

pretty good too

430

00:20:28,630 --> 00:20:25,440

gordon lightfoot today is 82.

431

00:20:31,190 --> 00:20:28,640

and and today so i went

432

00:20:32,549 --> 00:20:31,200

i had to go through my gordon lightfoot

433

00:20:36,149 --> 00:20:32,559

song list

434

00:20:39,270 --> 00:20:36,159

if you could read my mind right 1970

435

00:20:42,630 --> 00:20:39,280

sundown huh right

436

00:20:45,029 --> 00:20:42,640

carefree highway toe tapper

437

00:20:45,909 --> 00:20:45,039

rainy day people that's right and of

438

00:20:48,310 --> 00:20:45,919

course

439

00:20:50,710 --> 00:20:48,320

the wreck of the edmund fitzgerald happy

440

00:20:52,710 --> 00:20:50,720

birthday today one of canada's finest

441

00:20:53,750 --> 00:20:52,720

gordon lightfoot good documentary out

442

00:20:56,390 --> 00:20:53,760

right now

443

00:20:57,350 --> 00:20:56,400

with gordon my dead guy's birthday today

444

00:21:00,710 --> 00:20:57,360

jeff buckley

445

00:21:04,070 --> 00:21:00,720

but i have to

446

00:21:05,909 --> 00:21:04,080

1966 to 1997 died at the age of 30.

447

00:21:07,510 --> 00:21:05,919

of course jeff was an american singer

448

00:21:09,510 --> 00:21:07,520

songwriter and guitarist

449

00:21:11,830 --> 00:21:09,520

after a decade as a session guitarist

450

00:21:13,669 --> 00:21:11,840

here in los angeles

451
00:21:16,070 --> 00:21:13,679
buckley uh amassed a following in the

452
00:21:16,630 --> 00:21:16,080
early 1990s by playing cover songs at

453
00:21:20,149 --> 00:21:16,640
venues

454
00:21:22,470 --> 00:21:20,159
in manhattan's east village and recorded

455
00:21:25,909 --> 00:21:22,480
what would be his only studio album

456
00:21:27,990 --> 00:21:25,919
grace in 1994.

457
00:21:29,270 --> 00:21:28,000
jeff's cover of leonard cohen's song

458
00:21:31,510 --> 00:21:29,280
hallelujah

459
00:21:32,630 --> 00:21:31,520
went number one on billboard's hot

460
00:21:36,470 --> 00:21:32,640
digital songs

461
00:21:40,149 --> 00:21:36,480
in march 2008 and reached number two

462
00:21:41,029 --> 00:21:40,159
in the uk singles chart that december 11

463
00:21:44,710 --> 00:21:41,039

years

464

00:21:46,470 --> 00:21:44,720

after his death i may 29 1997 while

465

00:21:47,510 --> 00:21:46,480

awaiting the arrival of his band from

466

00:21:50,310 --> 00:21:47,520

new york

467

00:21:51,029 --> 00:21:50,320

jeff drowned during a spontaneous

468

00:21:54,390 --> 00:21:51,039

evening

469

00:21:55,830 --> 00:21:54,400

swim fully clothed in the mississippi

470

00:21:57,430 --> 00:21:55,840

river in memphis

471

00:21:59,669 --> 00:21:57,440

he was caught in the wake of a passing

472

00:22:03,110 --> 00:21:59,679

boat and his body was found

473

00:22:07,549 --> 00:22:03,120

uh a week later on june 4th he was just

474

00:22:09,990 --> 00:22:07,559

30 years old on this day in history

475

00:22:12,710 --> 00:22:10,000

1558

476
00:22:13,270 --> 00:22:12,720
queen mary the first the monarch of

477
00:22:17,110 --> 00:22:13,280
england

478
00:22:18,390 --> 00:22:17,120
and ireland since 1553 after five years

479
00:22:21,830 --> 00:22:18,400
dies

480
00:22:22,789 --> 00:22:21,840
and is succeeded by her 25 year old half

481
00:22:26,230 --> 00:22:22,799
sister

482
00:22:27,510 --> 00:22:26,240
elizabeth elizabeth ended up ruling for

483
00:22:31,190 --> 00:22:27,520
44

484
00:22:38,830 --> 00:22:31,200
years fader fact okay

485
00:22:51,110 --> 00:22:40,070
marshmallows

486
00:22:55,029 --> 00:22:51,120
invented originated in

487
00:22:58,230 --> 00:22:55,039
ancient egypt that's right they use them

488
00:23:00,070 --> 00:22:58,240

to build the pyramids it's a revolution

489

00:23:00,870 --> 00:23:00,080

i got a new documentary coming out here

490

00:23:04,870 --> 00:23:00,880

very soon

491

00:23:08,070 --> 00:23:04,880

marshmallows built the pyramids

492

00:23:11,190 --> 00:23:08,080

that's right egyptian would use this

493

00:23:14,470 --> 00:23:11,200

listen to me would use the mallow plant

494

00:23:18,230 --> 00:23:14,480

that grew in marshes right to

495

00:23:19,990 --> 00:23:18,240

create candy to soothe sore throats

496

00:23:22,070 --> 00:23:20,000

the roots of the male plant would create

497

00:23:23,990 --> 00:23:22,080

a gooey substance that was boiled and

498

00:23:28,230 --> 00:23:24,000

mixed with honey

499

00:23:29,750 --> 00:23:28,240

and they created marshmallows

500

00:23:32,710 --> 00:23:29,760

and that's a fact then they built a

501
00:23:36,390 --> 00:23:32,720
pyramids no sore throats allowed

502
00:23:38,470 --> 00:23:36,400
you must keep slaving marshmallows

503
00:23:39,909 --> 00:23:38,480
tonight very special guest rick delano's

504
00:23:42,149 --> 00:23:39,919
here we're talking about his new film

505
00:23:43,789 --> 00:23:42,159
the end of quantum reality

506
00:23:45,350 --> 00:23:43,799
the links for everything are over at

507
00:23:49,190 --> 00:23:45,360
jimmychurchradio.com the

508
00:23:49,990 --> 00:23:49,200
film is amazing and i want to talk about

509
00:23:53,909 --> 00:23:50,000
that right now

510
00:24:00,549 --> 00:23:53,919
as i hit this river moon coffee

511
00:24:04,149 --> 00:24:02,830
i want to go back to my comment last

512
00:24:06,870 --> 00:24:04,159
night

513
00:24:08,870 --> 00:24:06,880

that i've made many times on the show in

514

00:24:12,470 --> 00:24:08,880

the past and that is

515

00:24:15,830 --> 00:24:12,480

quoting myself the most spiritual person

516

00:24:18,230 --> 00:24:15,840

in the world is the physicist when the

517

00:24:22,549 --> 00:24:18,240

plane is going down

518

00:24:26,070 --> 00:24:22,559

end quote go ahead quote me it's a fact

519

00:24:31,750 --> 00:24:27,990

there is more to this statement than

520

00:24:38,950 --> 00:24:35,029

first off science

521

00:24:41,990 --> 00:24:38,960

to me is one of the coolest things ever

522

00:24:45,430 --> 00:24:42,000

seriously pure

523

00:24:48,549 --> 00:24:45,440

hardcore science

524

00:24:52,549 --> 00:24:48,559

i love it and then you have

525

00:24:56,230 --> 00:24:52,559

spirituality in any form to me

526

00:24:58,630 --> 00:24:56,240

is also cool and all of it

527

00:25:00,470 --> 00:24:58,640

i wonder and ponder the significance of

528

00:25:03,510 --> 00:25:00,480

it all

529

00:25:07,590 --> 00:25:03,520

i do it's absolutely the best

530

00:25:09,909 --> 00:25:07,600

the two if you think about it

531

00:25:12,470 --> 00:25:09,919

although clearly defined by so many with

532

00:25:16,710 --> 00:25:12,480

the line in the sand drawn

533

00:25:20,630 --> 00:25:16,720

the two totally exist side by side

534

00:25:23,190 --> 00:25:20,640

and i don't have a problem with it so

535

00:25:24,070 --> 00:25:23,200

why do so many the vast majority of

536

00:25:27,110 --> 00:25:24,080

scientists

537

00:25:29,510 --> 00:25:27,120

absolutely quiver shake and are visibly

538

00:25:30,789 --> 00:25:29,520

negative when it comes to the question

539

00:25:36,070 --> 00:25:30,799

of spirituality

540

00:25:39,190 --> 00:25:36,080

and or consciousness they freak out

541

00:25:42,470 --> 00:25:39,200

personally i don't get it

542

00:25:46,630 --> 00:25:42,480

it's so easy for me to understand both

543

00:25:47,990 --> 00:25:46,640

and and i see where they totally fit

544

00:25:51,909 --> 00:25:48,000

together

545

00:25:54,149 --> 00:25:51,919

i get it so if i can do it

546

00:25:57,430 --> 00:25:54,159

why doesn't the scientific community

547

00:26:01,269 --> 00:25:57,440

have the same open mind

548

00:26:03,669 --> 00:26:01,279

you see isaac newton case in point

549

00:26:04,870 --> 00:26:03,679

one of the most undisputed geniuses in

550

00:26:07,750 --> 00:26:04,880

history

551
00:26:08,830 --> 00:26:07,760
whose theories on gravity are not only

552
00:26:12,070 --> 00:26:08,840
in use

553
00:26:14,149 --> 00:26:12,080
today are also some of the most quoted

554
00:26:17,269 --> 00:26:14,159
in science

555
00:26:19,830 --> 00:26:17,279
dude was one of the most spiritual and

556
00:26:21,029 --> 00:26:19,840
god-fearing men since the beginning of

557
00:26:24,310 --> 00:26:21,039
time

558
00:26:28,630 --> 00:26:24,320
and nobody has an issue with it

559
00:26:34,549 --> 00:26:32,149
you see all of science is nothing more

560
00:26:36,310 --> 00:26:34,559
than a series of thinking outside the

561
00:26:40,310 --> 00:26:36,320
box

562
00:26:43,830 --> 00:26:40,320
presenting a theory testing and proving

563
00:26:45,269 --> 00:26:43,840

and then correcting it over and over

564

00:26:47,269 --> 00:26:45,279

again

565

00:26:48,630 --> 00:26:47,279

and then correcting the over and overs

566

00:26:52,870 --> 00:26:48,640

that's what it is

567

00:26:55,510 --> 00:26:52,880

science is a series of corrections

568

00:26:56,230 --> 00:26:55,520

real science is about thinking or

569

00:26:59,190 --> 00:26:56,240

dreaming

570

00:27:00,230 --> 00:26:59,200

about something crazy maybe it's

571

00:27:03,510 --> 00:27:00,240

groundbreaking

572

00:27:06,549 --> 00:27:03,520

it's certainly different and then trying

573

00:27:10,470 --> 00:27:06,559

to figure it out that's it

574

00:27:16,070 --> 00:27:10,480

right isn't the spiritual

575

00:27:16,080 --> 00:27:19,269

simply stated

576

00:27:22,630 --> 00:27:21,350

i can listen to a physicist any

577

00:27:27,269 --> 00:27:22,640

physicist

578

00:27:29,190 --> 00:27:27,279

hours and hours about

579

00:27:31,029 --> 00:27:29,200

the multiverse and time travel and

580

00:27:34,149 --> 00:27:31,039

entanglement and gravity waves and

581

00:27:35,909 --> 00:27:34,159

extraterrestrial life in the big bang

582

00:27:37,510 --> 00:27:35,919

right and they seem to have all the

583

00:27:40,710 --> 00:27:37,520

answers

584

00:27:41,669 --> 00:27:40,720

and that's cool and i love it but when

585

00:27:44,389 --> 00:27:41,679

the question

586

00:27:44,789 --> 00:27:44,399

the real question that is on everybody's

587

00:27:48,230 --> 00:27:44,799

mind

588

00:27:52,230 --> 00:27:48,240

comes up right which is okay

589

00:27:55,590 --> 00:27:52,240

that's fine uh but what is consciousness

590

00:27:57,669 --> 00:27:55,600

right and they just shut down

591

00:27:58,950 --> 00:27:57,679

and their answer is always the same

592

00:28:02,070 --> 00:27:58,960

though you know smug

593

00:28:05,269 --> 00:28:02,080

you know great question i don't know but

594

00:28:08,789 --> 00:28:05,279

it's all probably chemistry

595

00:28:11,430 --> 00:28:08,799

they can't explain how they

596

00:28:13,669 --> 00:28:11,440

are able to think how to speak how to

597

00:28:16,549 --> 00:28:13,679

laugh

598

00:28:18,470 --> 00:28:16,559

and it's a bridge they just don't want

599

00:28:21,510 --> 00:28:18,480

to cross

600

00:28:24,070 --> 00:28:21,520

personally i don't know why

601
00:28:25,669 --> 00:28:24,080
i'll never forget i've said this so many

602
00:28:28,710 --> 00:28:25,679
times but it's true because i

603
00:28:31,190 --> 00:28:28,720
i respect sean carroll

604
00:28:32,870 --> 00:28:31,200
all right even when i you know i wrote

605
00:28:33,190 --> 00:28:32,880
he wrote me back and said you know i'm

606
00:28:38,230 --> 00:28:33,200
uh

607
00:28:40,230 --> 00:28:38,240
you know get a hold of me in six months

608
00:28:43,750 --> 00:28:40,240
two days later he's on rogan

609
00:28:45,510 --> 00:28:43,760
you know whatever but anyway

610
00:28:47,750 --> 00:28:45,520
i'll never forget when sean carroll was

611
00:28:48,710 --> 00:28:47,760
asked uh the question do you believe in

612
00:28:53,029 --> 00:28:48,720
ghosts or

613
00:28:55,510 --> 00:28:53,039

life after death and his answer

614

00:28:57,190 --> 00:28:55,520

quote right i don't have time for such

615

00:29:00,070 --> 00:28:57,200

things

616

00:29:00,870 --> 00:29:00,080

i think about reality i spend my days

617

00:29:04,549 --> 00:29:00,880

working on

618

00:29:06,149 --> 00:29:04,559

numbers and equations and you see his

619

00:29:09,110 --> 00:29:06,159

words were measured

620

00:29:11,110 --> 00:29:09,120

almost too prepared and it made me

621

00:29:11,990 --> 00:29:11,120

wonder if old sean is laying awake at

622

00:29:13,909 --> 00:29:12,000

night in his bed

623

00:29:18,950 --> 00:29:13,919

you know just his head on the pillow

624

00:29:25,029 --> 00:29:23,029

he has to he's too smart

625

00:29:26,870 --> 00:29:25,039

now putting consciousness to the side

626

00:29:28,950 --> 00:29:26,880

for a moment there's another piece to

627

00:29:31,110 --> 00:29:28,960

this puzzle that has to be discussed and

628

00:29:34,070 --> 00:29:31,120

it is this

629

00:29:35,750 --> 00:29:34,080

there are only so many particles so many

630

00:29:38,070 --> 00:29:35,760

chemicals so many gases and

631

00:29:39,510 --> 00:29:38,080

and such throughout the universe and

632

00:29:42,630 --> 00:29:39,520

beyond that

633

00:29:45,269 --> 00:29:42,640

there are only so many ways that

634

00:29:46,950 --> 00:29:45,279

they combine it's a numbers game it's

635

00:29:51,350 --> 00:29:46,960

not infinite

636

00:29:54,950 --> 00:29:51,360

but somehow the basic of the basics

637

00:29:57,990 --> 00:29:54,960

and i'm talking about amino acids carbon

638

00:30:01,830 --> 00:29:58,000

water have learned to combine

639

00:30:05,990 --> 00:30:01,840

into rna and dna

640

00:30:06,789 --> 00:30:06,000

life you see you build a machine to do

641

00:30:09,510 --> 00:30:06,799

something

642

00:30:10,789 --> 00:30:09,520

it works until it breaks you fix it or

643

00:30:13,990 --> 00:30:10,799

throw it away but it

644

00:30:15,510 --> 00:30:14,000

ain't gonna fix itself the cells in our

645

00:30:18,549 --> 00:30:15,520

body

646

00:30:21,590 --> 00:30:18,559

or any living thing for that matter

647

00:30:22,230 --> 00:30:21,600

they repair they fix they change they

648

00:30:25,029 --> 00:30:22,240

modify

649

00:30:26,070 --> 00:30:25,039

and they do whatever it takes to survive

650

00:30:29,510 --> 00:30:26,080

trillions of

651
00:30:32,630 --> 00:30:29,520
times per second of every day of

652
00:30:37,190 --> 00:30:32,640
every year in the body that

653
00:30:39,830 --> 00:30:37,200
makes up you or your dog

654
00:30:41,110 --> 00:30:39,840
the tree in your front yard and they do

655
00:30:44,230 --> 00:30:41,120
this non-stop like

656
00:30:48,710 --> 00:30:44,240
magic anybody can tell me

657
00:30:51,350 --> 00:30:48,720
right now how the f this is possible

658
00:30:53,510 --> 00:30:51,360
right i'll send you a t-shirt i just

659
00:30:56,710 --> 00:30:53,520
want to know

660
00:30:59,190 --> 00:30:56,720
a scientist a physicist any of them will

661
00:31:02,310 --> 00:30:59,200
answer this with

662
00:31:03,590 --> 00:31:02,320
it just happens man it's chemistry

663
00:31:07,029 --> 00:31:03,600

that's it

664

00:31:09,830 --> 00:31:07,039

so in closing

665

00:31:11,990 --> 00:31:09,840

if it's really that simple where

666

00:31:13,110 --> 00:31:12,000

particles and acids are just going to

667

00:31:16,389 --> 00:31:13,120

bump into each other

668

00:31:20,149 --> 00:31:16,399

anywhere they can and life just

669

00:31:22,230 --> 00:31:20,159

happens well it's got to be going on

670

00:31:23,430 --> 00:31:22,240

everywhere all the time throughout the

671

00:31:26,549 --> 00:31:23,440

universe

672

00:31:27,830 --> 00:31:26,559

something this cool and while easy is

673

00:31:30,830 --> 00:31:27,840

one of the most complex

674

00:31:33,830 --> 00:31:30,840

things to have been engineered and

675

00:31:37,430 --> 00:31:33,840

designed and it wasn't by accident

676
00:31:40,310 --> 00:31:37,440
somebody did it and that is what science

677
00:31:41,190 --> 00:31:40,320
needs to figure out look i don't have

678
00:31:43,190 --> 00:31:41,200
all the answers

679
00:31:45,509 --> 00:31:43,200
but i'm curious enough to ask the

680
00:31:46,789 --> 00:31:45,519
questions and right now we need to have

681
00:31:50,230 --> 00:31:46,799
some physicists

682
00:31:53,110 --> 00:31:50,240
step up to the plate and take a swing

683
00:31:53,430 --> 00:31:53,120
seriously i'm your host jimmy church

684
00:31:56,149 --> 00:31:53,440
this

685
00:31:58,870 --> 00:31:56,159
is fade to black tonight rick delano is

686
00:32:01,509 --> 00:31:58,880
here we're talking about his new film

687
00:32:03,190 --> 00:32:01,519
the end of quantum reality tomorrow

688
00:32:04,470 --> 00:32:03,200

night right here stephen bassett

689

00:32:07,350 --> 00:32:04,480

we're going to be discussing the

690

00:32:09,029 --> 00:32:07,360

upcoming new biden administration

691

00:32:12,149 --> 00:32:09,039

and their position on disclosure in the

692

00:32:12,470 --> 00:32:12,159

ufo question heading into 2021 thursday

693

00:32:17,430 --> 00:32:12,480

night

694

00:32:18,870 --> 00:32:17,440

long i'm your host jimmy church

695

00:32:20,549 --> 00:32:18,880

i'll be right back after this short

696

00:32:32,000 --> 00:32:20,559

break with our guest

697

00:32:53,029 --> 00:32:50,870

[Music]

698

00:32:55,190 --> 00:32:53,039

this is nicole church daughter of you

699

00:32:57,590 --> 00:32:55,200

know who and you're listening to fade to

700

00:33:01,590 --> 00:32:57,600

black on jimmychurchradio.com and the

701
00:33:08,070 --> 00:33:03,909
you're listening to jimmy church fade to

702
00:33:11,220 --> 00:33:10,230
fate to black will now pause for alien

703
00:33:12,549 --> 00:33:11,230
identification

704
00:33:19,509 --> 00:33:12,559
[Music]

705
00:33:23,750 --> 00:33:21,830
introducing the game changer blend from

706
00:33:26,230 --> 00:33:23,760
river moon coffee that delivers a

707
00:33:27,509 --> 00:33:26,240
customized blend made specifically for

708
00:33:30,789 --> 00:33:27,519
the fader knots

709
00:33:33,750 --> 00:33:30,799
if the game is rigged change the game

710
00:33:34,310 --> 00:33:33,760
it's a boulder cup with some bite game

711
00:33:36,149 --> 00:33:34,320
changer

712
00:33:38,389 --> 00:33:36,159
is the coffee of choice for those that

713
00:33:39,110 --> 00:33:38,399

prefer an organic dark roast that is

714

00:33:42,549 --> 00:33:39,120

slightly

715

00:33:45,190 --> 00:33:42,559

lighter and milder but it's still dark

716

00:33:46,070 --> 00:33:45,200

with wild notes of pecans and chocolate

717

00:33:48,630 --> 00:33:46,080

with a rich

718

00:33:50,710 --> 00:33:48,640

balanced full-bodied cup that is roasted

719

00:33:53,750 --> 00:33:50,720

to perfection for a great coffee to

720

00:33:56,870 --> 00:33:53,760

start your day as an after dinner coffee

721

00:33:59,269 --> 00:33:56,880

or anywhere in between artisan small

722

00:34:00,789 --> 00:33:59,279

batch roasted to perfection usda

723

00:34:03,350 --> 00:34:00,799

certified organic all

724

00:34:05,190 --> 00:34:03,360

river moon coffee is freshly roasted and

725

00:34:07,350 --> 00:34:05,200

packaged in the usa

726

00:34:08,389 --> 00:34:07,360

just go to rivermooncoffee.com or click

727

00:34:11,430 --> 00:34:08,399

on the banners over

728

00:34:16,109 --> 00:34:11,440

on our site and use the promo code f2b

729

00:34:20,149 --> 00:34:16,119

blend for 15 off of your order today

730

00:34:23,270 --> 00:34:20,159

rivermooncoffee.com go back lee tappy

731

00:34:28,270 --> 00:34:23,280

this is the only way forward this

732

00:34:30,470 --> 00:34:28,280

is paid to black make contact

733

00:34:32,230 --> 00:34:30,480

jgraradio.com

734

00:34:33,990 --> 00:34:32,240

this is jimmy church of fade to black

735

00:34:36,790 --> 00:34:34,000

and you can get our podcast

736

00:34:38,629 --> 00:34:36,800

for just two dollars per month all you

737

00:34:39,270 --> 00:34:38,639

have to do is click on the podcast

738

00:34:42,550 --> 00:34:39,280

banner

739

00:34:45,190 --> 00:34:42,560
over at jimmychurchradio.com

740

00:34:46,470 --> 00:34:45,200
hi folks it's trembling times and fear

741

00:34:48,710 --> 00:34:46,480
is pushing emotions

742

00:34:50,470 --> 00:34:48,720
which in turn pushes health the wrong

743

00:34:51,510 --> 00:34:50,480
direction do you ever get an egg because

744

00:34:54,149 --> 00:34:51,520
life is uneasy

745

00:34:56,069 --> 00:34:54,159
try life change tea get the tea.com life

746

00:34:56,790 --> 00:34:56,079
change tea works on your digestive tract

747

00:34:59,190 --> 00:34:56,800
helping to move

748

00:35:00,710 --> 00:34:59,200
food through quicker and comfortably so

749

00:35:02,470 --> 00:35:00,720
your health is spot on

750

00:35:04,550 --> 00:35:02,480
life change team may not help with world

751

00:35:05,990 --> 00:35:04,560

issues but it will help with your

752

00:35:07,990 --> 00:35:06,000

digestive issues

753

00:35:09,670 --> 00:35:08,000

a glass a day helps keep the intruders

754

00:35:12,230 --> 00:35:09,680

away so

755

00:35:15,190 --> 00:35:12,240

change your life today log on to get the

756

00:35:17,670 --> 00:35:15,200

tea.com that's get the tea.com

757

00:35:19,109 --> 00:35:17,680

if your health game is off get on by

758

00:35:21,589 --> 00:35:19,119

ordering life change tea

759

00:35:23,990 --> 00:35:21,599

get the tea.com and while you're on our

760

00:35:25,670 --> 00:35:24,000

site look around at the great non-gmo

761

00:35:28,310 --> 00:35:25,680

organic supplements and if you're a

762

00:35:30,069 --> 00:35:28,320

sales shopper go to our specials page

763

00:35:31,829 --> 00:35:30,079

and see what's for you i've been

764

00:35:33,910 --> 00:35:31,839

drinking the tea for 12 years and i'm

765

00:35:36,790 --> 00:35:33,920

sure glad for its health benefits

766

00:35:37,589 --> 00:35:36,800

again that's get the tea dot com get the

767

00:35:43,510 --> 00:35:37,599

tea

768

00:35:44,550 --> 00:35:43,520

permanent industrial glue impossible to

769

00:35:47,270 --> 00:35:44,560

remove

770

00:35:47,910 --> 00:35:47,280

not anymore because handyman formula by

771

00:35:50,310 --> 00:35:47,920

debond

772

00:35:51,510 --> 00:35:50,320

is a patented chemical adhesive remover

773

00:35:53,270 --> 00:35:51,520

it's used in the building and home

774

00:35:55,910 --> 00:35:53,280

maintenance industry but now

775

00:35:57,109 --> 00:35:55,920

it's available for your home use for

776

00:36:00,390 --> 00:35:57,119

your diy

777

00:36:02,310 --> 00:36:00,400

projects unglue stickers silicone rubber

778

00:36:04,630 --> 00:36:02,320

labels price tags flex tape weather

779

00:36:05,109 --> 00:36:04,640

stripping carpet glue wood glue liquid

780

00:36:09,030 --> 00:36:05,119

nails

781

00:36:12,230 --> 00:36:09,040

even 3m 5200 and it dissolves

782

00:36:14,390 --> 00:36:12,240

graffiti yeah graffiti handyman formula

783

00:36:14,790 --> 00:36:14,400

by d-bond works and it's safe to use on

784

00:36:17,190 --> 00:36:14,800

most

785

00:36:19,510 --> 00:36:17,200

surfaces no need to call a professional

786

00:36:21,670 --> 00:36:19,520

don't get out the pliers and blowtorch

787

00:36:23,670 --> 00:36:21,680

just apply a little handyman formula by

788

00:36:26,069 --> 00:36:23,680

d-bond and wait 90 seconds

789

00:36:26,870 --> 00:36:26,079

then quickly and easily pull the items

790

00:36:29,150 --> 00:36:26,880

apart

791

00:36:31,870 --> 00:36:29,160

get unstuck visit

792

00:36:35,630 --> 00:36:31,880

dbondhandymanformula.com that's

793

00:36:41,109 --> 00:36:37,430

561-575-4200

794

00:36:46,230 --> 00:36:41,119

handyman formula by d bond

795

00:36:53,589 --> 00:36:49,990

fade to black is not

796

00:36:55,270 --> 00:36:53,599

your father's radio show on the game

797

00:36:59,910 --> 00:36:55,280

changer radio network

798

00:37:01,910 --> 00:36:59,920

and kgra the planet

799

00:37:06,950 --> 00:37:01,920

hi this is rob reiner from anvil and

800

00:37:28,870 --> 00:37:08,349

i'm chris what up jimmychurchradio.com

801
00:37:32,870 --> 00:37:30,550
all right welcome back fade to black i

802
00:37:34,829 --> 00:37:32,880
am your host jimmy church

803
00:37:36,150 --> 00:37:34,839
what a great show we've got tonight

804
00:37:38,870 --> 00:37:36,160
producer

805
00:37:41,910 --> 00:37:38,880
rick delano is here and tomorrow night

806
00:37:42,950 --> 00:37:41,920
stephen bassett live from washington d.c

807
00:37:44,870 --> 00:37:42,960
you're not going to want to miss that

808
00:37:46,150 --> 00:37:44,880
and of course thursday night is fader

809
00:37:49,270 --> 00:37:46,160
night with open lines

810
00:37:51,510 --> 00:37:49,280
all night long rick delano has

811
00:37:53,270 --> 00:37:51,520
worked as an executive producer

812
00:37:55,430 --> 00:37:53,280
financial consultant in the music and

813
00:37:57,990 --> 00:37:55,440

film industries for more than 20 years

814

00:37:59,670 --> 00:37:58,000

and then he released a very

815

00:38:01,589 --> 00:37:59,680

controversial movie called the principal

816

00:38:04,310 --> 00:38:01,599

we will be talking about that tonight

817

00:38:05,589 --> 00:38:04,320

but his newest production is the end of

818

00:38:07,270 --> 00:38:05,599

quantum reality

819

00:38:09,910 --> 00:38:07,280

a work based on the discoveries of

820

00:38:12,150 --> 00:38:09,920

former mit mathematics professor dr

821

00:38:14,230 --> 00:38:12,160

wolfgang smith we are going to talk

822

00:38:15,910 --> 00:38:14,240

about all of that tonight i want to

823

00:38:16,790 --> 00:38:15,920

welcome for the first time to fade to

824

00:38:18,950 --> 00:38:16,800

black

825

00:38:20,150 --> 00:38:18,960

rick delano rick good evening man how

826
00:38:22,710 --> 00:38:20,160
are you

827
00:38:23,910 --> 00:38:22,720
i'm great jimmy thanks for having me on

828
00:38:26,470 --> 00:38:23,920
hey uh

829
00:38:27,430 --> 00:38:26,480
you get the first time guest disclaimer

830
00:38:29,750 --> 00:38:27,440
rick

831
00:38:30,950 --> 00:38:29,760
the next time the next time we have you

832
00:38:32,230 --> 00:38:30,960
on the show you're not going to get it

833
00:38:34,150 --> 00:38:32,240
but here we go

834
00:38:35,589 --> 00:38:34,160
uh and it's this it's just you and i

835
00:38:37,190 --> 00:38:35,599
sitting on my couch having a

836
00:38:39,109 --> 00:38:37,200
conversation as friends

837
00:38:40,630 --> 00:38:39,119
and where the conversation starts where

838
00:38:41,510 --> 00:38:40,640

it ends it ends but we're going to end

839

00:38:44,630 --> 00:38:41,520

his friends

840

00:38:45,589 --> 00:38:44,640

there you go all right you ready works

841

00:38:48,870 --> 00:38:45,599

for me

842

00:38:51,829 --> 00:38:48,880

right on right now um uh you know what

843

00:38:54,069 --> 00:38:51,839

before before we get started here and

844

00:38:56,150 --> 00:38:54,079

there's a lot of foundation uh delay so

845

00:38:59,109 --> 00:38:56,160

we're gonna get into all of that

846

00:38:59,510 --> 00:38:59,119

but uh let me actually start here which

847

00:39:04,790 --> 00:38:59,520

is

848

00:39:07,829 --> 00:39:04,800

film

849

00:39:11,510 --> 00:39:07,839

been so far we have been

850

00:39:15,109 --> 00:39:11,520

incredibly uh blessed

851
00:39:17,109 --> 00:39:15,119
to uh have

852
00:39:19,190 --> 00:39:17,119
you know we were a little bit freaked

853
00:39:21,349 --> 00:39:19,200
out because basically the entire movie

854
00:39:23,589 --> 00:39:21,359
business ceased to exist in the middle

855
00:39:24,390 --> 00:39:23,599
of our theatrical run back in january

856
00:39:27,750 --> 00:39:24,400
and february

857
00:39:29,190 --> 00:39:27,760
right we had played about 15 cities we

858
00:39:32,390 --> 00:39:29,200
had

859
00:39:34,069 --> 00:39:32,400
all kinds of uh of new opportunities

860
00:39:35,349 --> 00:39:34,079
opening up and then all of a sudden the

861
00:39:38,550 --> 00:39:35,359
movie business ceased

862
00:39:41,430 --> 00:39:38,560
to exist and

863
00:39:43,910 --> 00:39:41,440

we didn't really know uh what kind of an

864

00:39:47,270 --> 00:39:43,920

effect that was going to have

865

00:39:48,950 --> 00:39:47,280

on our digital release and we are just

866

00:39:51,430 --> 00:39:48,960

stunned you know we've

867

00:39:54,310 --> 00:39:51,440

this film has sold into over 60

868

00:39:57,750 --> 00:39:54,320

countries around the world already

869

00:40:00,470 --> 00:39:57,760

we have we have had just remarkable

870

00:40:02,950 --> 00:40:00,480

uh response to the film we've basically

871

00:40:04,150 --> 00:40:02,960

been completely ignored by mainstream

872

00:40:07,829 --> 00:40:04,160

media

873

00:40:09,510 --> 00:40:07,839

uh the the couple of reviews we did get

874

00:40:11,829 --> 00:40:09,520

in in mainstream

875

00:40:13,430 --> 00:40:11,839

uh papers were basically just

876

00:40:15,030 --> 00:40:13,440

contemptuous

877

00:40:16,630 --> 00:40:15,040

uh oh these guys are a bunch of

878

00:40:18,710 --> 00:40:16,640

catholics you don't have to pay any

879

00:40:21,750 --> 00:40:18,720

attention to them

880

00:40:25,589 --> 00:40:21,760

and in spite of that uh we

881

00:40:29,109 --> 00:40:25,599

are just extremely gratified

882

00:40:29,910 --> 00:40:29,119

at the uh at the very wide distribution

883

00:40:33,829 --> 00:40:29,920

the film

884

00:40:36,870 --> 00:40:33,839

continues uh to be receiving through uh

885

00:40:39,990 --> 00:40:36,880

both video on demand and uh

886

00:40:40,950 --> 00:40:40,000

our own uh website for a dvds it's been

887

00:40:43,430 --> 00:40:40,960

remarkable

888

00:40:44,309 --> 00:40:43,440

now it's so funny for you to say

889

00:40:47,670 --> 00:40:44,319

something like

890

00:40:48,710 --> 00:40:47,680

uh catholics because if somebody says

891

00:40:50,630 --> 00:40:48,720

something like that

892

00:40:53,190 --> 00:40:50,640

and it was seriously there they didn't

893

00:40:56,069 --> 00:40:53,200

watch the film

894

00:40:58,790 --> 00:40:56,079

right i think it is a very safe bet that

895

00:40:59,430 --> 00:40:58,800

neither the la times nor the hollywood

896

00:41:02,630 --> 00:40:59,440

reporter

897

00:41:04,790 --> 00:41:02,640

actually watched the film they more or

898

00:41:06,069 --> 00:41:04,800

less admit it you know they they said

899

00:41:08,710 --> 00:41:06,079

you know we

900

00:41:10,550 --> 00:41:08,720

we we couldn't make it hide and you

901
00:41:11,109 --> 00:41:10,560
couldn't make head no tales out of this

902
00:41:12,870 --> 00:41:11,119
but

903
00:41:14,470 --> 00:41:12,880
we went to the website and look they

904
00:41:16,550 --> 00:41:14,480
talk about how

905
00:41:18,309 --> 00:41:16,560
this film was made for the glory of god

906
00:41:22,150 --> 00:41:18,319
so we can ignore it

907
00:41:23,990 --> 00:41:22,160
right you know right well yeah

908
00:41:26,069 --> 00:41:24,000
i i would say well there's so many

909
00:41:28,630 --> 00:41:26,079
groundbreaking things in the film

910
00:41:29,829 --> 00:41:28,640
but my response to that and i want your

911
00:41:32,550 --> 00:41:29,839
response

912
00:41:34,230 --> 00:41:32,560
is that one of the things that i thought

913
00:41:38,470 --> 00:41:34,240

was a revelation in the film

914

00:41:41,829 --> 00:41:38,480

and so warm and cool was tibet

915

00:41:45,349 --> 00:41:41,839

right what does that have to do with the

916

00:41:48,870 --> 00:41:47,109

this is what's so remarkable about

917

00:41:51,910 --> 00:41:48,880

wolfgang i mean when i

918

00:41:53,510 --> 00:41:51,920

first started to really get to know

919

00:41:56,630 --> 00:41:53,520

wolfgang

920

00:41:57,750 --> 00:41:56,640

and i realized what a remarkable man

921

00:41:59,910 --> 00:41:57,760

this is

922

00:42:02,470 --> 00:41:59,920

i mean here is the guy who was accepted

923

00:42:05,990 --> 00:42:02,480

into cornell at 14 years of

924

00:42:08,470 --> 00:42:06,000

age by the time he was 18 he had

925

00:42:11,430 --> 00:42:08,480

graduated with majors in mathematics

926

00:42:14,710 --> 00:42:11,440

physics and philosophy

927

00:42:16,470 --> 00:42:14,720

he had a master's degree in quantum

928

00:42:17,270 --> 00:42:16,480

mechanics from purdue by the time he was

929

00:42:20,630 --> 00:42:17,280

20

930

00:42:22,309 --> 00:42:20,640

and then he took off to india and never

931

00:42:23,990 --> 00:42:22,319

intended to come back by the way it was

932

00:42:25,589 --> 00:42:24,000

never his intention to come back

933

00:42:27,670 --> 00:42:25,599

he's such a remarkable man you know he

934

00:42:30,950 --> 00:42:27,680

said i wanted to

935

00:42:31,910 --> 00:42:30,960

climb this ladder that i knew i could

936

00:42:35,030 --> 00:42:31,920

only find

937

00:42:38,069 --> 00:42:35,040

in the remnants of the ancient

938

00:42:39,510 --> 00:42:38,079

uh vedantic traditions still to be found

939

00:42:41,750 --> 00:42:39,520

deep in the himalayas

940

00:42:43,270 --> 00:42:41,760

i never intended to come back and i said

941

00:42:46,309 --> 00:42:43,280

well why did you

942

00:42:47,750 --> 00:42:46,319

and he smiles and he says because i

943

00:42:50,790 --> 00:42:47,760

wasn't good enough

944

00:42:53,870 --> 00:42:50,800

i couldn't climb that ladder

945

00:42:57,349 --> 00:42:53,880

but nevertheless i came back and an

946

00:42:59,990 --> 00:42:57,359

entirely changed man

947

00:43:02,309 --> 00:43:00,000

and this is such a remarkable man he not

948

00:43:05,270 --> 00:43:02,319

only completely swims

949

00:43:08,550 --> 00:43:05,280

to the deep water of the most advanced

950

00:43:13,349 --> 00:43:08,560

western science mathematics philosophy

951
00:43:17,030 --> 00:43:13,359
he has also made direct living contact

952
00:43:19,670 --> 00:43:17,040
with the most ancient wisdom schools

953
00:43:21,270 --> 00:43:19,680
of mankind that is that at that time

954
00:43:23,190 --> 00:43:21,280
were still to be found

955
00:43:25,589 --> 00:43:23,200
you had to go way up into the himalayas

956
00:43:28,710 --> 00:43:25,599
to find them but they were still there

957
00:43:32,309 --> 00:43:28,720
and he contacted these people and he

958
00:43:34,470 --> 00:43:32,319
swears to me up and down that what he

959
00:43:37,270 --> 00:43:34,480
received over there is something he

960
00:43:37,990 --> 00:43:37,280
never could have received anywhere else

961
00:43:40,790 --> 00:43:38,000
right

962
00:43:43,190 --> 00:43:40,800
and that his entire subsequent course of

963
00:43:46,710 --> 00:43:43,200

his studies of his life

964

00:43:49,829 --> 00:43:46,720

of his writing were deeply influenced

965

00:43:51,589 --> 00:43:49,839

uh by this experience and encounter with

966

00:43:54,230 --> 00:43:51,599

the ancient traditions of the

967

00:43:54,710 --> 00:43:54,240

of the hindu tradition yeah don't you

968

00:43:57,750 --> 00:43:54,720

feel

969

00:44:00,710 --> 00:43:57,760

that um and again we're getting ahead of

970

00:44:03,829 --> 00:44:00,720

our skis but i love the conversation

971

00:44:05,750 --> 00:44:03,839

don't you feel that if you are going uh

972

00:44:07,430 --> 00:44:05,760

to pursue a life of physics and

973

00:44:09,510 --> 00:44:07,440

you want to make that your career and

974

00:44:10,950 --> 00:44:09,520

especially in the quantum side maybe

975

00:44:12,950 --> 00:44:10,960

astro too as well

976

00:44:13,990 --> 00:44:12,960

but if you're going to go there that you

977

00:44:18,150 --> 00:44:14,000

need to do a

978

00:44:22,150 --> 00:44:18,160

six month uh sabbatical in your courses

979

00:44:22,790 --> 00:44:22,160

and go to tibet oh right oh i i i can't

980

00:44:26,069 --> 00:44:22,800

tell you

981

00:44:29,030 --> 00:44:26,079

how much i agree with that it's it

982

00:44:29,430 --> 00:44:29,040

especially now i mean i suppose for a

983

00:44:32,150 --> 00:44:29,440

while

984

00:44:32,790 --> 00:44:32,160

i mean let's face it the enlightenment

985

00:44:36,390 --> 00:44:32,800

had a

986

00:44:39,589 --> 00:44:36,400

very very good run i mean golly

987

00:44:40,790 --> 00:44:39,599

for 300 years it really was possible to

988

00:44:43,990 --> 00:44:40,800

believe

989

00:44:47,109 --> 00:44:44,000

that these guys had found the magic key

990

00:44:48,829 --> 00:44:47,119

uh as we talked in the film what newton

991

00:44:51,670 --> 00:44:48,839

accomplished was so

992

00:44:54,790 --> 00:44:51,680

astonishing so overwhelming

993

00:44:58,150 --> 00:44:54,800

in its power and persuasiveness

994

00:44:59,910 --> 00:44:58,160

that it's perfectly reasonable to

995

00:45:01,750 --> 00:44:59,920

have a little sympathy for the

996

00:45:03,510 --> 00:45:01,760

inheritors of that tradition

997

00:45:05,270 --> 00:45:03,520

when they basically started to look at

998

00:45:05,670 --> 00:45:05,280

every other way of knowing is something

999

00:45:08,150 --> 00:45:05,680

sort of

1000

00:45:10,470 --> 00:45:08,160

contemptuous you know i remember in my

1001
00:45:12,710 --> 00:45:10,480
first film lawrence krauss

1002
00:45:14,870 --> 00:45:12,720
said you know philosophy was useful back

1003
00:45:16,390 --> 00:45:14,880
before we had physical science

1004
00:45:18,309 --> 00:45:16,400
but now that we have physical science

1005
00:45:21,510 --> 00:45:18,319
philosophy is obsolete

1006
00:45:23,670 --> 00:45:21,520
and that arrogance is

1007
00:45:25,910 --> 00:45:23,680
that's the best lord's good that's the

1008
00:45:27,990 --> 00:45:25,920
best lord's grouse impersonation i've

1009
00:45:30,309 --> 00:45:28,000
ever heard

1010
00:45:31,750 --> 00:45:30,319
well you know i spent thousands of hours

1011
00:45:34,309 --> 00:45:31,760
listening to lawrence

1012
00:45:36,790 --> 00:45:34,319
when i was editing the film and you know

1013
00:45:38,470 --> 00:45:36,800

i i really must say i'm deeply indebted

1014

00:45:39,349 --> 00:45:38,480

to lawrence trust my first film would

1015

00:45:42,870 --> 00:45:39,359

have been

1016

00:45:45,990 --> 00:45:42,880

not nearly as good without him

1017

00:45:48,790 --> 00:45:46,000

because a good film you gotta have

1018

00:45:49,670 --> 00:45:48,800

really strong voices all across the

1019

00:45:53,030 --> 00:45:49,680

spectrum

1020

00:45:56,630 --> 00:45:53,040

especially the side that you do not find

1021

00:45:57,270 --> 00:45:56,640

persuasive it's so easy to allow

1022

00:46:00,630 --> 00:45:57,280

yourself

1023

00:46:01,270 --> 00:46:00,640

to to edit a film so that it it sort of

1024

00:46:03,270 --> 00:46:01,280

slants

1025

00:46:05,030 --> 00:46:03,280

toward your side of the tracks sure

1026
00:46:07,270 --> 00:46:05,040
that's not a good documentary a good

1027
00:46:07,910 --> 00:46:07,280
documentary is when the punches are

1028
00:46:11,670 --> 00:46:07,920
thrown

1029
00:46:12,790 --> 00:46:11,680
clean and hard from all sides of the

1030
00:46:14,470 --> 00:46:12,800
spectrum

1031
00:46:15,910 --> 00:46:14,480
and you know lawrence is very

1032
00:46:19,270 --> 00:46:15,920
entertaining

1033
00:46:20,950 --> 00:46:19,280
uh uh you know it takes a certain degree

1034
00:46:23,589 --> 00:46:20,960
of hutzpah

1035
00:46:25,750 --> 00:46:23,599
to actually let a camera be running

1036
00:46:27,349 --> 00:46:25,760
while a doctor of physics explains to us

1037
00:46:29,349 --> 00:46:27,359
the philosophy has no

1038
00:46:30,550 --> 00:46:29,359

we we have no use for philosophy in the

1039

00:46:33,670 --> 00:46:30,560

world anymore

1040

00:46:35,030 --> 00:46:33,680

physics has taken over just to have the

1041

00:46:37,030 --> 00:46:35,040

hoods put to actually

1042

00:46:38,069 --> 00:46:37,040

say something like that with the camera

1043

00:46:41,109 --> 00:46:38,079

running

1044

00:46:41,510 --> 00:46:41,119

it makes for a very good film yeah and

1045

00:46:44,790 --> 00:46:41,520

these

1046

00:46:46,309 --> 00:46:44,800

physicists today uh i call them rockstar

1047

00:46:49,430 --> 00:46:46,319

physicists and

1048

00:46:51,750 --> 00:46:49,440

and where it's different

1049

00:46:53,510 --> 00:46:51,760

maybe feynman may be an exception he was

1050

00:46:55,510 --> 00:46:53,520

a pretty colorful guy

1051

00:46:56,630 --> 00:46:55,520

but he is he is an exception he's a

1052

00:46:59,109 --> 00:46:56,640

great physicist yeah

1053

00:47:00,069 --> 00:46:59,119

great physicist and and and knew how to

1054

00:47:04,390 --> 00:47:00,079

uh

1055

00:47:07,190 --> 00:47:04,400

was he was really good at it but

1056

00:47:08,309 --> 00:47:07,200

but teachers are just hilarious i love

1057

00:47:10,470 --> 00:47:08,319

him so entertaining

1058

00:47:12,390 --> 00:47:10,480

i love him but uh today you know with

1059

00:47:13,030 --> 00:47:12,400

lawrence krauss and sean carroll and

1060

00:47:16,230 --> 00:47:13,040

green

1061

00:47:17,670 --> 00:47:16,240

and and uh even dawkins you can throw

1062

00:47:21,910 --> 00:47:17,680

him into the mix

1063

00:47:24,390 --> 00:47:21,920

um these guys are also performers

1064

00:47:25,270 --> 00:47:24,400

and they are very comfortable in front

1065

00:47:26,950 --> 00:47:25,280

of the camera

1066

00:47:29,430 --> 00:47:26,960

and i don't think we had that in the

1067

00:47:31,349 --> 00:47:29,440

past um and i'll tell you why it wasn't

1068

00:47:32,630 --> 00:47:31,359

it wasn't quite as big of a business in

1069

00:47:34,710 --> 00:47:32,640

the past

1070

00:47:36,470 --> 00:47:34,720

you think about a guy named albert

1071

00:47:39,750 --> 00:47:36,480

einstein

1072

00:47:42,549 --> 00:47:39,760

you know he was working as a clerk

1073

00:47:44,150 --> 00:47:42,559

in the swiss patent office when he wrote

1074

00:47:44,790 --> 00:47:44,160

his paper on special relativity there

1075

00:47:47,670 --> 00:47:44,800

was no

1076
00:47:49,670 --> 00:47:47,680
big science back then i mean this guy

1077
00:47:50,950 --> 00:47:49,680
had to pay the bills by clerking in a

1078
00:47:52,630 --> 00:47:50,960
patent office

1079
00:47:54,309 --> 00:47:52,640
when he wrote what is quite probably the

1080
00:47:56,230 --> 00:47:54,319
most influential paper written in

1081
00:47:58,069 --> 00:47:56,240
physics since newton died

1082
00:47:59,270 --> 00:47:58,079
it's a whole different ballgame now this

1083
00:48:02,790 --> 00:47:59,280
is big

1084
00:48:07,349 --> 00:48:02,800
business it is their business there are

1085
00:48:11,349 --> 00:48:07,359
hundreds of billions of dollars at stake

1086
00:48:14,870 --> 00:48:11,359
and essentially you know the the world

1087
00:48:18,870 --> 00:48:14,880
story that we tell ourselves today

1088
00:48:21,750 --> 00:48:18,880

uh we have learned from the physicists

1089

00:48:23,510 --> 00:48:21,760

and while that story behind the scenes

1090

00:48:25,430 --> 00:48:23,520

is

1091

00:48:26,950 --> 00:48:25,440

it's much more than just fraying at the

1092

00:48:29,829 --> 00:48:26,960

edges as we uh

1093

00:48:32,630 --> 00:48:29,839

say at the beginning of the new film uh

1094

00:48:35,829 --> 00:48:32,640

all of the pillars are wobbling now

1095

00:48:37,109 --> 00:48:35,839

every one of the fundamental things that

1096

00:48:39,670 --> 00:48:37,119

we've all been told

1097

00:48:41,190 --> 00:48:39,680

is certainly true all the way through

1098

00:48:43,829 --> 00:48:41,200

our schooling and growing up

1099

00:48:46,309 --> 00:48:43,839

oh the big bang happened 13.6 no make

1100

00:48:49,349 --> 00:48:46,319

that 13.8 billion years ago

1101
00:48:49,829 --> 00:48:49,359
i remember kraus said to me the big bang

1102
00:48:52,470 --> 00:48:49,839
happened

1103
00:48:54,549 --> 00:48:52,480
it's just as sure as you sitting across

1104
00:48:57,270 --> 00:48:54,559
from me in that chair

1105
00:48:59,349 --> 00:48:57,280
well that's complete nonsense that's an

1106
00:49:03,349 --> 00:48:59,359
insult to the intelligence of

1107
00:49:06,069 --> 00:49:03,359
anyone who can discern the difference

1108
00:49:08,470 --> 00:49:06,079
between the speculative and theoretical

1109
00:49:10,710 --> 00:49:08,480
conclusions of a given scientific

1110
00:49:12,710 --> 00:49:10,720
theory and the fact that i can look at

1111
00:49:16,630 --> 00:49:12,720
you sitting in the chair across from me

1112
00:49:20,150 --> 00:49:16,640
to actually insult our intelligence

1113
00:49:23,589 --> 00:49:20,160

by insisting that the two things can be

1114

00:49:26,630 --> 00:49:23,599

known with similar degrees of certainty

1115

00:49:29,349 --> 00:49:26,640

that's an example of where pr

1116

00:49:30,630 --> 00:49:29,359

has become the product rather than

1117

00:49:33,430 --> 00:49:30,640

science

1118

00:49:35,750 --> 00:49:33,440

guys like einstein guys like heisenberg

1119

00:49:38,710 --> 00:49:35,760

there was no celebrity

1120

00:49:41,510 --> 00:49:38,720

involved uh at the early stages of their

1121

00:49:45,670 --> 00:49:41,520

career later on of course they got it

1122

00:49:47,910 --> 00:49:45,680

but the the entire scientific enterprise

1123

00:49:50,630 --> 00:49:47,920

now is such big business

1124

00:49:52,470 --> 00:49:50,640

has such immense power both financially

1125

00:49:55,030 --> 00:49:52,480

and culturally

1126

00:49:56,630 --> 00:49:55,040

that there is an entire division of

1127

00:49:59,670 --> 00:49:56,640

public relations

1128

00:50:00,470 --> 00:49:59,680

neil degrasse tyson the guys you

1129

00:50:03,670 --> 00:50:00,480

mentioned

1130

00:50:05,190 --> 00:50:03,680

whose real job whose real function is to

1131

00:50:08,630 --> 00:50:05,200

be a talking head

1132

00:50:09,030 --> 00:50:08,640

on your tv set assuring you that we have

1133

00:50:12,150 --> 00:50:09,040

it

1134

00:50:15,109 --> 00:50:12,160

all figured out right supporting their

1135

00:50:15,829 --> 00:50:15,119

dogma and see the thing is and the thing

1136

00:50:24,710 --> 00:50:15,839

is

1137

00:50:28,870 --> 00:50:24,720

back in in the 30s well in the teens

1138

00:50:31,510 --> 00:50:28,880

right uh 1917 1915

1139

00:50:32,230 --> 00:50:31,520

special in general uh when those were

1140

00:50:34,309 --> 00:50:32,240

authored

1141

00:50:35,430 --> 00:50:34,319

and everything that happened after that

1142

00:50:38,470 --> 00:50:35,440

with heisenberg

1143

00:50:40,790 --> 00:50:38,480

and and and boards all of that they

1144

00:50:42,950 --> 00:50:40,800

weren't basing everything on dogma

1145

00:50:45,030 --> 00:50:42,960

these guys were asking a question yeah

1146

00:50:47,750 --> 00:50:45,040

these guys were asking questions

1147

00:50:48,790 --> 00:50:47,760

they were trying to figure things out

1148

00:50:52,309 --> 00:50:48,800

wolfgang of course

1149

00:50:55,030 --> 00:50:52,319

studied directly under people who were

1150

00:50:57,750 --> 00:50:55,040

trained by heisenberg i mean he

1151

00:51:00,549 --> 00:50:57,760

he was at cornell in the 40s this was

1152

00:51:02,870 --> 00:51:00,559

the end of the golden ear the rigor

1153

00:51:03,990 --> 00:51:02,880

involved in getting a physics degree

1154

00:51:07,430 --> 00:51:04,000

then

1155

00:51:10,230 --> 00:51:07,440

was just unimaginable compared to today

1156

00:51:11,270 --> 00:51:10,240

and what wolfgang always told me is that

1157

00:51:14,630 --> 00:51:11,280

science has

1158

00:51:16,470 --> 00:51:14,640

changed drastically since he was

1159

00:51:17,990 --> 00:51:16,480

uh since he was an undergraduate and a

1160

00:51:21,430 --> 00:51:18,000

graduate at

1161

00:51:24,790 --> 00:51:21,440

cornell and purdue at mit that

1162

00:51:27,790 --> 00:51:24,800

the degree of rigor that was required

1163

00:51:29,750 --> 00:51:27,800

under his professors is simply

1164

00:51:32,870 --> 00:51:29,760

unimaginable

1165

00:51:36,950 --> 00:51:32,880

compared to the essentially pr

1166

00:51:40,470 --> 00:51:36,960

operations that we see just

1167

00:51:43,349 --> 00:51:40,480

very powerfully spread and supported

1168

00:51:44,150 --> 00:51:43,359

across the popular science press today

1169

00:51:47,270 --> 00:51:44,160

back then

1170

00:51:50,390 --> 00:51:47,280

there was still a real sense

1171

00:51:53,549 --> 00:51:50,400

that physics was

1172

00:51:58,470 --> 00:51:53,559

the most rigorous

1173

00:52:01,670 --> 00:51:58,480

self-correcting and uh uh

1174

00:52:03,750 --> 00:52:01,680

you couldn't just blow smoke uh

1175

00:52:04,710 --> 00:52:03,760

back in in the early decades of this

1176

00:52:06,870 --> 00:52:04,720

century

1177

00:52:08,630 --> 00:52:06,880

you had to have the goods and you had to

1178

00:52:11,829 --> 00:52:08,640

be able to experimentally

1179

00:52:14,790 --> 00:52:11,839

demonstrate that you had the goods

1180

00:52:17,190 --> 00:52:14,800

and that's where we got the tremendous

1181

00:52:19,589 --> 00:52:17,200

breakthroughs in quantum mechanics

1182

00:52:20,390 --> 00:52:19,599

it wasn't because they had a better pr

1183

00:52:22,390 --> 00:52:20,400

operation

1184

00:52:25,750 --> 00:52:22,400

it wasn't because they had sean carroll

1185

00:52:27,750 --> 00:52:25,760

out writing a new york times bestseller

1186

00:52:29,109 --> 00:52:27,760

because they had the experiments and

1187

00:52:32,230 --> 00:52:29,119

they could show

1188

00:52:35,349 --> 00:52:32,240

that their equations predicted those

1189

00:52:36,870 --> 00:52:35,359

results and there was another oh

1190

00:52:38,790 --> 00:52:36,880

you know what we're going to continue

1191

00:52:40,950 --> 00:52:38,800

this part of the conversation

1192

00:52:44,390 --> 00:52:40,960

when we come back for the break because

1193

00:52:48,069 --> 00:52:44,400

i i have to ask this before the break

1194

00:52:51,190 --> 00:52:48,079

how did you go from

1195

00:52:53,030 --> 00:52:51,200

music and film right executive producing

1196

00:52:56,230 --> 00:52:53,040

and finance and money

1197

00:52:56,630 --> 00:52:56,240

into hardcore physics and the acquiring

1198

00:52:59,270 --> 00:52:56,640

of

1199

00:52:59,990 --> 00:52:59,280

the knowledge was this something that

1200

00:53:02,309 --> 00:53:00,000

you had

1201
00:53:05,190 --> 00:53:02,319
an interest in throughout life or did

1202
00:53:08,390 --> 00:53:05,200
you just jump in with both feet

1203
00:53:11,510 --> 00:53:08,400
i did neither i it was

1204
00:53:15,109 --> 00:53:11,520
thrown into my lap and i

1205
00:53:18,390 --> 00:53:15,119
had no choice when i was asked

1206
00:53:20,549 --> 00:53:18,400
to produce the principle

1207
00:53:22,630 --> 00:53:20,559
i said i don't want to do this i have no

1208
00:53:23,670 --> 00:53:22,640
interest in film i have no experience in

1209
00:53:26,150 --> 00:53:23,680
film

1210
00:53:28,150 --> 00:53:26,160
and my friend bob sanjenis tried a

1211
00:53:29,670 --> 00:53:28,160
couple of times to get other producers

1212
00:53:32,069 --> 00:53:29,680
to take the project

1213
00:53:33,190 --> 00:53:32,079

he was not satisfied with uh with the

1214

00:53:35,109 --> 00:53:33,200

results

1215

00:53:36,870 --> 00:53:35,119

and he finally came to me as a friend

1216

00:53:37,349 --> 00:53:36,880

and said rick you're the only guy i

1217

00:53:42,950 --> 00:53:37,359

trust

1218

00:53:45,990 --> 00:53:42,960

to do this and god help me i said yes

1219

00:53:46,549 --> 00:53:46,000

and making the principle turned out to

1220

00:53:50,950 --> 00:53:46,559

be the

1221

00:53:53,910 --> 00:53:50,960

single most incredibly challenging

1222

00:53:56,069 --> 00:53:53,920

thing i had ever taken on because i was

1223

00:53:56,549 --> 00:53:56,079

going to put my name on this and it

1224

00:53:59,589 --> 00:53:56,559

become

1225

00:54:03,030 --> 00:53:59,599

became clear at a very early stage that

1226

00:54:06,150 --> 00:54:03,040

i would have to know enough

1227

00:54:08,390 --> 00:54:06,160

to not make any glaring mistake

1228

00:54:09,589 --> 00:54:08,400

not with the film with that subject no

1229

00:54:10,870 --> 00:54:09,599

you can't step out of bounds because i

1230

00:54:12,309 --> 00:54:10,880

knew how controversial it was going to

1231

00:54:14,390 --> 00:54:12,319

be i knew we were

1232

00:54:15,589 --> 00:54:14,400

speaking with the leading cosmologists

1233

00:54:18,309 --> 00:54:15,599

in the world

1234

00:54:20,230 --> 00:54:18,319

and i spent about three years before we

1235

00:54:23,589 --> 00:54:20,240

made that film

1236

00:54:27,109 --> 00:54:23,599

simply immersed in

1237

00:54:27,510 --> 00:54:27,119

cutting-edge cosmology and i must have

1238

00:54:30,470 --> 00:54:27,520

read

1239

00:54:33,109 --> 00:54:30,480

at least 500 papers and all the footnote

1240

00:54:36,069 --> 00:54:33,119

references in all of those papers

1241

00:54:37,829 --> 00:54:36,079

in order to prepare for the opportunity

1242

00:54:39,190 --> 00:54:37,839

to sit down and interview men like

1243

00:54:43,750 --> 00:54:39,200

george ellis

1244

00:54:45,990 --> 00:54:43,760

max tegmark lawrence krauss michio kaku

1245

00:54:47,190 --> 00:54:46,000

i was going to get one shot with these

1246

00:54:50,150 --> 00:54:47,200

guys

1247

00:54:50,870 --> 00:54:50,160

and i knew that i had to be in a

1248

00:54:53,910 --> 00:54:50,880

position to

1249

00:54:57,030 --> 00:54:53,920

ask the questions that no

1250

00:54:57,910 --> 00:54:57,040

other journalist was ever going to ask

1251
00:55:01,510 --> 00:54:57,920
them

1252
00:55:02,069 --> 00:55:01,520
i took it very seriously and it was only

1253
00:55:04,069 --> 00:55:02,079
about

1254
00:55:05,349 --> 00:55:04,079
two and a half years in that i realized

1255
00:55:09,270 --> 00:55:05,359
i absolutely love

1256
00:55:12,549 --> 00:55:09,280
this stuff and the best it's the best

1257
00:55:15,349 --> 00:55:12,559
and let me let me ask you this um

1258
00:55:16,630 --> 00:55:15,359
when i watched the principal the first

1259
00:55:20,390 --> 00:55:16,640
time

1260
00:55:23,589 --> 00:55:20,400
um i found myself squirming in my chair

1261
00:55:26,789 --> 00:55:23,599
i i i it pushes you to

1262
00:55:28,390 --> 00:55:26,799
a side of being uncomfortable it does

1263
00:55:30,710 --> 00:55:28,400

that's the job of the film

1264

00:55:33,670 --> 00:55:30,720

well you know i i when i started

1265

00:55:36,390 --> 00:55:33,680

producing documentaries i took as my

1266

00:55:37,670 --> 00:55:36,400

guiding principle that a good

1267

00:55:41,190 --> 00:55:37,680

documentary film

1268

00:55:42,950 --> 00:55:41,200

exists for one fundamental reason

1269

00:55:44,630 --> 00:55:42,960

and that reason is this a good

1270

00:55:48,150 --> 00:55:44,640

documentary film

1271

00:55:50,309 --> 00:55:48,160

will afflict the comfortable and comfort

1272

00:55:51,270 --> 00:55:50,319

the afflicted that's right that's all i

1273

00:55:53,109 --> 00:55:51,280

ever tried to do

1274

00:55:54,390 --> 00:55:53,119

well you pulled it off in the principle

1275

00:55:55,829 --> 00:55:54,400

i mean

1276

00:55:57,829 --> 00:55:55,839

i'm going to tell the audience uh

1277

00:56:01,270 --> 00:55:57,839

earlier today i told rick i said look

1278

00:56:04,069 --> 00:56:01,280

um i didn't really agree

1279

00:56:04,549 --> 00:56:04,079

with much of the principle but it made

1280

00:56:08,950 --> 00:56:04,559

me

1281

00:56:13,190 --> 00:56:08,960

i don't

1282

00:56:15,670 --> 00:56:13,200

to agree with everything rick

1283

00:56:16,470 --> 00:56:15,680

what's the what's the challenge in that

1284

00:56:20,150 --> 00:56:16,480

right

1285

00:56:21,270 --> 00:56:20,160

yeah bravo man i mean there's so much

1286

00:56:23,109 --> 00:56:21,280

pre-packaged

1287

00:56:25,750 --> 00:56:23,119

you lead you around by the nose out

1288

00:56:27,190 --> 00:56:25,760

there to me the most important thing we

1289

00:56:30,470 --> 00:56:27,200

need to recover

1290

00:56:31,510 --> 00:56:30,480

as a culture is the ability to think for

1291

00:56:33,910 --> 00:56:31,520

ourselves

1292

00:56:35,270 --> 00:56:33,920

and learn how to think better for

1293

00:56:37,270 --> 00:56:35,280

ourselves

1294

00:56:39,910 --> 00:56:37,280

and uh you know just as a documentary

1295

00:56:44,069 --> 00:56:39,920

filmmaker i want the tension

1296

00:56:46,710 --> 00:56:44,079

i want there to be very strong conflicts

1297

00:56:48,870 --> 00:56:46,720

and i want each of those arguments to be

1298

00:56:51,510 --> 00:56:48,880

very very persuasive

1299

00:56:53,349 --> 00:56:51,520

and if nothing else i i hope that i will

1300

00:56:55,589 --> 00:56:53,359

do just what you said i hope that i will

1301
00:56:57,109 --> 00:56:55,599
give you something to think about

1302
00:56:58,870 --> 00:56:57,119
let me ask you this we've got a three

1303
00:57:01,990 --> 00:56:58,880
minutes before the break okay

1304
00:57:04,630 --> 00:57:02,000
so take your time but out of

1305
00:57:06,950 --> 00:57:04,640
everybody and that includes wolfgang

1306
00:57:09,109 --> 00:57:06,960
tell me that max tag mark was as cool as

1307
00:57:13,190 --> 00:57:09,119
i think he is

1308
00:57:16,390 --> 00:57:13,200
oh what max was the absolute star

1309
00:57:17,349 --> 00:57:16,400
of the principal hands down no doubt

1310
00:57:21,430 --> 00:57:17,359
about it

1311
00:57:23,829 --> 00:57:21,440
you know it's funny i i i must say

1312
00:57:25,109 --> 00:57:23,839
that of every person i have interviewed

1313
00:57:29,030 --> 00:57:25,119

for both films

1314

00:57:31,910 --> 00:57:29,040

wolfgang smith stands head and shoulders

1315

00:57:32,309 --> 00:57:31,920

above everyone else that i interviewed

1316

00:57:35,349 --> 00:57:32,319

uh

1317

00:57:37,670 --> 00:57:35,359

george ellis was the smartest person i

1318

00:57:39,109 --> 00:57:37,680

interviewed for the principal sure but

1319

00:57:42,710 --> 00:57:39,119

in terms of

1320

00:57:45,270 --> 00:57:42,720

who did the camera just absolutely love

1321

00:57:46,470 --> 00:57:45,280

who brightened up the screen every time

1322

00:57:49,990 --> 00:57:46,480

he was on it

1323

00:57:52,950 --> 00:57:50,000

who left us absolutely

1324

00:57:53,990 --> 00:57:52,960

jolted every time he appeared on screen

1325

00:57:56,630 --> 00:57:54,000

that would be max

1326
00:57:57,349 --> 00:57:56,640
tag mark hands down yeah i i totally

1327
00:58:00,230 --> 00:57:57,359
agree

1328
00:58:00,549 --> 00:58:00,240
and there are a couple of physicists out

1329
00:58:04,150 --> 00:58:00,559
there

1330
00:58:06,069 --> 00:58:04,160
now of course wolfgang uh is unique unto

1331
00:58:08,150 --> 00:58:06,079
himself for his own reasons and we'll

1332
00:58:09,109 --> 00:58:08,160
start to get into that after the break

1333
00:58:12,390 --> 00:58:09,119
but uh

1334
00:58:16,470 --> 00:58:12,400
max and a little bit with brian greene

1335
00:58:17,430 --> 00:58:16,480
um i think that they have a more open

1336
00:58:19,910 --> 00:58:17,440
mind

1337
00:58:21,990 --> 00:58:19,920
right they are okay with exploring and

1338
00:58:25,030 --> 00:58:22,000

they are okay with being wrong

1339

00:58:25,670 --> 00:58:25,040

once in a while and and continuing the

1340

00:58:27,510 --> 00:58:25,680

fight

1341

00:58:29,510 --> 00:58:27,520

and that's what that's what i see in max

1342

00:58:30,950 --> 00:58:29,520

and i've always felt that

1343

00:58:32,710 --> 00:58:30,960

where if you're going to go into the

1344

00:58:35,270 --> 00:58:32,720

sense and wonder of wonderment

1345

00:58:37,109 --> 00:58:35,280

and ponder the significance of it all

1346

00:58:38,870 --> 00:58:37,119

max is going to do that to you

1347

00:58:41,510 --> 00:58:38,880

you know and and he's going to listen to

1348

00:58:45,510 --> 00:58:41,520

what you have to say

1349

00:58:47,589 --> 00:58:45,520

i will never be able to thank max enough

1350

00:58:49,430 --> 00:58:47,599

for you know he became a friend of mine

1351
00:58:50,789 --> 00:58:49,440
because i interviewed him twice for the

1352
00:58:53,670 --> 00:58:50,799
principal

1353
00:58:55,589 --> 00:58:53,680
once in 2011 and then right after the

1354
00:58:56,470 --> 00:58:55,599
plot data came out and the axis of evil

1355
00:58:58,309 --> 00:58:56,480
became

1356
00:59:00,309 --> 00:58:58,319
you know it was completely confirmed

1357
00:59:01,589 --> 00:59:00,319
okay you have to understand when i made

1358
00:59:04,630 --> 00:59:01,599
the principle i'd

1359
00:59:05,829 --> 00:59:04,640
bet to film on the fact that planck

1360
00:59:08,950 --> 00:59:05,839
would confirm

1361
00:59:12,470 --> 00:59:08,960
this amazing axis across the

1362
00:59:14,230 --> 00:59:12,480
cosmos and at least 95

1363
00:59:15,829 --> 00:59:14,240

of the papers that were being published

1364

00:59:18,630 --> 00:59:15,839

while we were editing the film

1365

00:59:20,630 --> 00:59:18,640

were saying it would not be confirmed

1366

00:59:22,630 --> 00:59:20,640

and all the rumors were

1367

00:59:25,270 --> 00:59:22,640

that plant was going to falsify the

1368

00:59:28,230 --> 00:59:25,280

access it was a terrible feeling

1369

00:59:28,789 --> 00:59:28,240

except i remember i asked max i called

1370

00:59:31,990 --> 00:59:28,799

him up

1371

00:59:35,430 --> 00:59:32,000

and i said max i know you've

1372

00:59:38,309 --> 00:59:35,440

got friends on the plant team is there

1373

00:59:40,150 --> 00:59:38,319

anything you can tell me about what

1374

00:59:43,510 --> 00:59:40,160

you're hearing and he said

1375

00:59:46,789 --> 00:59:43,520

well rick i do have friends and

1376

00:59:50,630 --> 00:59:46,799

yes i could tell you but unfortunately

1377

00:59:53,829 --> 00:59:50,640

then i would have to kill you but

1378

00:59:55,030 --> 00:59:53,839

if i were you i'd just keep right on

1379

00:59:57,109 --> 00:59:55,040

going

1380

00:59:59,030 --> 00:59:57,119

and that's when i knew i knew that we

1381

01:00:01,349 --> 00:59:59,040

were going to be okay

1382

01:00:03,030 --> 01:00:01,359

i knew that when punk released its data

1383

01:00:03,990 --> 01:00:03,040

we were going to still be in the ball

1384

01:00:05,589 --> 01:00:04,000

game as a matter of fact we were going

1385

01:00:06,710 --> 01:00:05,599

to be the only film in the world and to

1386

01:00:08,390 --> 01:00:06,720

this day

1387

01:00:10,789 --> 01:00:08,400

we're the only documentary film out

1388

01:00:14,549 --> 01:00:10,799

there that really examines this

1389

01:00:17,030 --> 01:00:14,559

stunning discovery and cosmology

1390

01:00:18,710 --> 01:00:17,040

and i owe all that to max now on the

1391

01:00:20,230 --> 01:00:18,720

other side of the coin and i'll make

1392

01:00:22,789 --> 01:00:20,240

this brief because i know we're up

1393

01:00:26,309 --> 01:00:22,799

against a break

1394

01:00:29,270 --> 01:00:26,319

max like everybody else in academia

1395

01:00:31,510 --> 01:00:29,280

threw me under the bus without the

1396

01:00:33,910 --> 01:00:31,520

slightest hesitation

1397

01:00:35,910 --> 01:00:33,920

when the big controversy broke about the

1398

01:00:38,630 --> 01:00:35,920

principal

1399

01:00:40,309 --> 01:00:38,640

i never was able to get him to respond

1400

01:00:42,630 --> 01:00:40,319

to me again

1401
01:00:44,069 --> 01:00:42,640
after he was quoted in popular science

1402
01:00:47,750 --> 01:00:44,079
magazine as saying i had

1403
01:00:51,589 --> 01:00:47,760
cleverly tricked him

1404
01:00:55,510 --> 01:00:51,599
now max knows that's not true

1405
01:00:58,630 --> 01:00:55,520
he knows that i know that's not true

1406
01:00:59,670 --> 01:00:58,640
but never once after that article

1407
01:01:02,309 --> 01:00:59,680
appeared

1408
01:01:03,430 --> 01:01:02,319
did max tegmark ever again answer a

1409
01:01:06,710 --> 01:01:03,440
phone call

1410
01:01:09,589 --> 01:01:06,720
or an email from me and i find that

1411
01:01:10,150 --> 01:01:09,599
to be very very sad indeed yeah that's

1412
01:01:17,510 --> 01:01:10,160
that

1413
01:01:19,430 --> 01:01:17,520

dollar

1414

01:01:20,710 --> 01:01:19,440

everybody's uh fighting for the next

1415

01:01:24,390 --> 01:01:20,720

book deal uh

1416

01:01:27,430 --> 01:01:24,400

another series on pbs whatever it is

1417

01:01:29,510 --> 01:01:27,440

and uh and that and and i get that

1418

01:01:30,789 --> 01:01:29,520

i can't really fault max for that

1419

01:01:33,910 --> 01:01:30,799

because

1420

01:01:35,750 --> 01:01:33,920

uh it's it's it's the culture

1421

01:01:37,670 --> 01:01:35,760

you know that's it he's he's no

1422

01:01:39,270 --> 01:01:37,680

different than anybody else

1423

01:01:41,030 --> 01:01:39,280

let's take our break right here rick

1424

01:01:41,670 --> 01:01:41,040

great conversation great start to the

1425

01:01:43,349 --> 01:01:41,680

show

1426

01:01:45,109 --> 01:01:43,359

our guest tonight rick delano when we

1427

01:01:47,910 --> 01:01:45,119

come back after the break

1428

01:01:48,630 --> 01:01:47,920

uh we got to go straight to it right we

1429

01:01:52,150 --> 01:01:48,640

have to

1430

01:01:54,230 --> 01:01:52,160

it is dr wolfgang smith who was he the

1431

01:01:56,630 --> 01:01:54,240

life and times and the new film

1432

01:01:57,990 --> 01:01:56,640

which is incredible the end of quantum

1433

01:02:00,870 --> 01:01:58,000

reality tonight

1434

01:02:02,789 --> 01:02:00,880

rick delano executive producer of the

1435

01:02:04,390 --> 01:02:02,799

film and the host

1436

01:02:05,910 --> 01:02:04,400

of the end of quantum reality i'm real

1437

01:02:23,510 --> 01:02:05,920

jimmy church this is fade to black stay

1438

01:02:27,990 --> 01:02:25,670

this is fade to black with jimmy church

1439

01:02:32,950 --> 01:02:28,000

on the game changer radio network

1440

01:02:35,510 --> 01:02:32,960

and kgra the global radio alliance

1441

01:02:36,549 --> 01:02:35,520

this is kgra digital broadcasting

1442

01:02:40,950 --> 01:02:36,559

station

1443

01:02:42,950 --> 01:02:40,960

salt lake city utah van buren arkansas

1444

01:02:44,549 --> 01:02:42,960

hello my name is billy carson and i'm a

1445

01:02:46,309 --> 01:02:44,559

best-selling author and the founder of

1446

01:02:47,910 --> 01:02:46,319

forbidden knowledge dot tv

1447

01:02:50,150 --> 01:02:47,920

together with my team we have built a

1448

01:02:51,750 --> 01:02:50,160

all new contest streaming tv platform

1449

01:02:52,309 --> 01:02:51,760

designed with every family member in

1450

01:02:53,829 --> 01:02:52,319

mind

1451

01:02:55,510 --> 01:02:53,839

if you have ever wanted to travel the

1452

01:02:56,950 --> 01:02:55,520

world and attend lectures and workshops

1453

01:02:57,589 --> 01:02:56,960

from your favorite speakers but weren't

1454

01:03:00,309 --> 01:02:57,599

able to

1455

01:03:00,950 --> 01:03:00,319

look no further forbidden knowledge dot

1456

01:03:02,630 --> 01:03:00,960

tv

1457

01:03:04,470 --> 01:03:02,640

there are dozens of workshops and

1458

01:03:06,549 --> 01:03:04,480

lectures from speakers you know and love

1459

01:03:08,470 --> 01:03:06,559

we have also included amazing categories

1460

01:03:10,309 --> 01:03:08,480

to assure that your consciousness is

1461

01:03:10,950 --> 01:03:10,319

entertained and elevating on a daily

1462

01:03:13,029 --> 01:03:10,960

basis

1463

01:03:14,230 --> 01:03:13,039

amazing interviews ancient history

1464

01:03:16,230 --> 01:03:14,240

ascension knowledge

1465

01:03:17,430 --> 01:03:16,240

wisdom teachings documentaries

1466

01:03:19,670 --> 01:03:17,440

conspiracies

1467

01:03:21,589 --> 01:03:19,680

mysteries health and fitness conscious

1468

01:03:23,750 --> 01:03:21,599

cooking meditations finance

1469

01:03:26,150 --> 01:03:23,760

yoga and so much more to start your free

1470

01:03:28,789 --> 01:03:26,160

trial on any mobile device or computer

1471

01:03:29,270 --> 01:03:28,799

surf to forbidden knowledge dot tv

1472

01:03:31,349 --> 01:03:29,280

that's

1473

01:03:33,589 --> 01:03:31,359

forbidden knowledge with the number four

1474

01:03:38,950 --> 01:03:33,599

forbidden knowledge dot tv

1475

01:03:43,990 --> 01:03:42,150

listen i know and you know that you've

1476

01:03:46,150 --> 01:03:44,000

always wanted your first crystal

1477

01:03:47,270 --> 01:03:46,160

skull or maybe you're a collector just

1478

01:03:49,430 --> 01:03:47,280

like me but you

1479

01:03:50,710 --> 01:03:49,440

just don't know where to go to find the

1480

01:03:53,349 --> 01:03:50,720

real thing

1481

01:03:55,349 --> 01:03:53,359

then i met carolyn ford over at einstein

1482

01:03:57,829 --> 01:03:55,359

the crystalskull.com

1483

01:03:59,750 --> 01:03:57,839

carolyn is the guardian of einstein one

1484

01:04:01,270 --> 01:03:59,760

of the most respected ancient crystal

1485

01:04:03,029 --> 01:04:01,280

skulls in the world

1486

01:04:04,870 --> 01:04:03,039

all of her unique skulls have been

1487

01:04:06,950 --> 01:04:04,880

imprinted sitting with einstein

1488

01:04:09,430 --> 01:04:06,960

in his sacred lodge and are carved from

1489

01:04:11,589 --> 01:04:09,440

the finest gemstone and materials

1490

01:04:14,230 --> 01:04:11,599

imprinting is the process of receiving

1491

01:04:17,510 --> 01:04:14,240

the ancient wisdom from the master skull

1492

01:04:18,789 --> 01:04:17,520

or master computer einstein the ancient

1493

01:04:20,549 --> 01:04:18,799

crystal skull

1494

01:04:22,870 --> 01:04:20,559

to see carolyn's current collection of

1495

01:04:25,510 --> 01:04:22,880

crystal skulls just visit her store at

1496

01:04:27,829 --> 01:04:25,520

einstein the crystalskull.com

1497

01:04:29,829 --> 01:04:27,839

click on the banner over on our site

1498

01:04:32,630 --> 01:04:29,839

don't forget to use the promo code

1499

01:04:33,910 --> 01:04:32,640

jimmy at checkout to receive 10 off of

1500

01:04:36,870 --> 01:04:33,920

your order today

1501

01:04:39,430 --> 01:04:36,880

that's promo code jimmy finding your

1502

01:04:42,069 --> 01:04:39,440

first or next crystal skull is easy

1503

01:04:44,870 --> 01:04:42,079

just visit einstein the crystal skull

1504

01:04:49,670 --> 01:04:47,029

when you take the beans from central

1505

01:04:50,950 --> 01:04:49,680

america with dashes of indonesian and

1506

01:04:53,190 --> 01:04:50,960

african mixed in

1507

01:04:54,549 --> 01:04:53,200

and then roasted to the dark side of

1508

01:04:57,750 --> 01:04:54,559

fade to black

1509

01:05:00,710 --> 01:04:57,760

you create the ultimate brew of fringe

1510

01:05:02,390 --> 01:05:00,720

introducing the fade to black blend from

1511

01:05:05,430 --> 01:05:02,400

river moon coffee

1512

01:05:08,150 --> 01:05:05,440

yes river moon's darkest customized

1513

01:05:09,589 --> 01:05:08,160

roast was created for the love of fade

1514

01:05:12,230 --> 01:05:09,599

to black

1515

01:05:13,510 --> 01:05:12,240

the alchemy of masterful roasting and

1516

01:05:16,789 --> 01:05:13,520

smoking the beans

1517

01:05:19,829 --> 01:05:16,799

is in every sip of this full-bodied dark

1518

01:05:22,309 --> 01:05:19,839

java i need my coffee doc

1519

01:05:23,349 --> 01:05:22,319

deep with distinct bittersweet chocolate

1520

01:05:25,910 --> 01:05:23,359

highlights

1521

01:05:27,829 --> 01:05:25,920

just like the bunker leaning further

1522

01:05:30,549 --> 01:05:27,839

into the darkness of the roast

1523

01:05:31,430 --> 01:05:30,559

is fade to black blend from river moon

1524

01:05:33,150 --> 01:05:31,440

coffee

1525

01:05:35,190 --> 01:05:33,160

just click on the banner at

1526
01:05:35,589 --> 01:05:35,200
jimmychurchradio.com and use the promo

1527
01:05:40,069 --> 01:05:35,599
code

1528
01:05:50,230 --> 01:05:40,079
f2b blend for 15 off of your order today

1529
01:05:52,150 --> 01:05:50,240
go back lee tappy you're listening

1530
01:05:53,990 --> 01:05:52,160
hi this is ray sobbs here repping the

1531
01:05:54,630 --> 01:05:54,000
planet and you're listening to my good

1532
01:05:57,510 --> 01:05:54,640
friend

1533
01:05:58,470 --> 01:05:57,520
jimmy church fade to black on the game

1534
01:06:03,270 --> 01:05:58,480
changer network

1535
01:06:06,430 --> 01:06:03,280
and the kgra digital broadcast station

1536
01:06:07,589 --> 01:06:06,440
this is toby kebble you're listening to

1537
01:06:10,630 --> 01:06:07,599
jimmychurchradio.com

1538
01:06:11,750 --> 01:06:10,640

don't hurt me jimmy i'm only little hey

1539

01:06:16,829 --> 01:06:11,760

i'm adrian grenier

1540

01:06:24,150 --> 01:06:20,470

brothers

1541

01:06:26,950 --> 01:06:24,160

listening to jimmy church

1542

01:06:28,710 --> 01:06:26,960

a revolution this is jimmy church of

1543

01:06:30,870 --> 01:06:28,720

fade to black and you can become an

1544

01:06:32,789 --> 01:06:30,880

official fate or not by just going to

1545

01:06:36,150 --> 01:06:32,799

our membership section

1546

01:06:38,230 --> 01:06:36,160

at jimmychurchradio.com

1547

01:06:39,670 --> 01:06:38,240

hello this is serena wright taylor from

1548

01:06:41,589 --> 01:06:39,680

conscious life expo

1549

01:06:42,710 --> 01:06:41,599

and you're listening to fade to black

1550

01:06:44,950 --> 01:06:42,720

with jimmy church

1551
01:06:46,069 --> 01:06:44,960
who holds the lucky pony record for the

1552
01:06:50,710 --> 01:06:46,079
best astrological

1553
01:06:52,390 --> 01:06:50,720
chart since 1963. true story

1554
01:06:53,990 --> 01:06:52,400
this is micah hanks of the graelian

1555
01:06:55,510 --> 01:06:54,000
report and you're listening to jimmy

1556
01:06:57,270 --> 01:06:55,520
church on fade to black

1557
01:06:59,190 --> 01:06:57,280
across the globe on the game changer

1558
01:07:14,900 --> 01:06:59,200
radio network and the one and only

1559
01:07:21,990 --> 01:07:14,910
kgra radio the planet

1560
01:07:25,190 --> 01:07:23,829
all right all right welcome back fade to

1561
01:07:27,109 --> 01:07:25,200
black i'm your host jimmy church tonight

1562
01:07:29,190 --> 01:07:27,119
rick delano is here it's going to be a

1563
01:07:30,789 --> 01:07:29,200

great conversation

1564

01:07:32,630 --> 01:07:30,799

talking about his new film the end of

1565

01:07:34,390 --> 01:07:32,640

quantum reality and

1566

01:07:35,670 --> 01:07:34,400

for the bunker cam i was just showing

1567

01:07:39,589 --> 01:07:35,680

off everybody i've got a

1568

01:07:42,230 --> 01:07:39,599

foot of hair it's still growing

1569

01:07:43,829 --> 01:07:42,240

uh thanks to to the pandemic and uh

1570

01:07:47,190 --> 01:07:43,839

there you go

1571

01:07:49,349 --> 01:07:47,200

i've had one haircut since january

1572

01:07:51,270 --> 01:07:49,359

and uh it's feeling good i'm going back

1573

01:07:54,470 --> 01:07:51,280

to my rock and roll roots

1574

01:07:58,230 --> 01:07:54,480

uh literally literally um

1575

01:08:01,990 --> 01:07:58,240

what a great film and when uh

1576

01:08:03,910 --> 01:08:02,000

when it came up uh uh it was on amazon

1577

01:08:07,190 --> 01:08:03,920

and it's there it's a new release

1578

01:08:08,870 --> 01:08:07,200

and i click on the description and i'm

1579

01:08:10,470 --> 01:08:08,880

when it comes to film i love science

1580

01:08:11,990 --> 01:08:10,480

fiction and all of that you know that's

1581

01:08:15,829 --> 01:08:12,000

that's that's cool but

1582

01:08:18,630 --> 01:08:15,839

my heart longs for uh black and white

1583

01:08:19,110 --> 01:08:18,640

pragmatic documentaries just give me the

1584

01:08:21,669 --> 01:08:19,120

knowledge

1585

01:08:22,870 --> 01:08:21,679

i want to learn something right and i

1586

01:08:24,709 --> 01:08:22,880

and it pops up and i read the

1587

01:08:25,829 --> 01:08:24,719

description i was like holy crap this is

1588

01:08:28,309 --> 01:08:25,839

impossible

1589

01:08:29,269 --> 01:08:28,319

it's like the perfect film right so

1590

01:08:32,390 --> 01:08:29,279

anyway

1591

01:08:34,229 --> 01:08:32,400

i'm gonna start here um and that

1592

01:08:36,149 --> 01:08:34,239

is the beginning of the film i'm gonna

1593

01:08:40,149 --> 01:08:36,159

throw you under the bus a little bit but

1594

01:08:42,630 --> 01:08:40,159

um uh i'm listening to the opening music

1595

01:08:44,789 --> 01:08:42,640

and i love production but i'm listening

1596

01:08:47,510 --> 01:08:44,799

listening to the vocals and

1597

01:08:47,829 --> 01:08:47,520

uh the bass guitar the lines the melody

1598

01:08:51,349 --> 01:08:47,839

and

1599

01:08:53,269 --> 01:08:51,359

a what a cool tune

1600

01:08:55,990 --> 01:08:53,279

all right so anyway i get into the film

1601
01:08:59,110 --> 01:08:56,000
i'll watch it i get to the credits

1602
01:09:03,430 --> 01:08:59,120
and you sing you second wrote

1603
01:09:06,070 --> 01:09:03,440
uh the song um wow

1604
01:09:07,669 --> 01:09:06,080
that's it uh you know i i hope you're

1605
01:09:11,110 --> 01:09:07,679
not blushing right now but

1606
01:09:12,550 --> 01:09:11,120
uh man and i so i want everybody to know

1607
01:09:13,189 --> 01:09:12,560
when you go and watch the film that's

1608
01:09:15,590 --> 01:09:13,199
rick at the

1609
01:09:17,110 --> 01:09:15,600
at the beginning of the film love the

1610
01:09:18,829 --> 01:09:17,120
lyrics by the way

1611
01:09:21,430 --> 01:09:18,839
you got everybody in there you got

1612
01:09:25,749 --> 01:09:21,440
einstein

1613
01:09:28,789 --> 01:09:25,759

nixon

1614

01:09:30,390 --> 01:09:28,799

um yeah it's really funny you mentioned

1615

01:09:32,709 --> 01:09:30,400

that jimmy i

1616

01:09:34,470 --> 01:09:32,719

i always you know the bottom line is

1617

01:09:37,269 --> 01:09:34,480

it's really true we

1618

01:09:37,749 --> 01:09:37,279

we realized pretty early on in editing

1619

01:09:39,990 --> 01:09:37,759

that we

1620

01:09:41,349 --> 01:09:40,000

really needed an original score for this

1621

01:09:43,910 --> 01:09:41,359

thing right

1622

01:09:46,309 --> 01:09:43,920

and uh there's this guy out there who

1623

01:09:51,990 --> 01:09:46,319

was willing to do it for a really really

1624

01:09:58,550 --> 01:09:55,030

it's perfect um and well done

1625

01:10:00,390 --> 01:09:58,560

nobody uh unless they last to the

1626

01:10:03,750 --> 01:10:00,400

credits they're not going to know that

1627

01:10:04,950 --> 01:10:03,760

right and and i thought as i was

1628

01:10:07,510 --> 01:10:04,960

listening to i thought this is

1629

01:10:08,709 --> 01:10:07,520

this is like a a hit song that i missed

1630

01:10:11,270 --> 01:10:08,719

somewhere

1631

01:10:13,110 --> 01:10:11,280

and then i started listening to the

1632

01:10:13,990 --> 01:10:13,120

lyrics i went no this is written for the

1633

01:10:16,070 --> 01:10:14,000

film

1634

01:10:17,750 --> 01:10:16,080

okay so i wanted to make sure in the end

1635

01:10:19,830 --> 01:10:17,760

that i could find out who that artist

1636

01:10:23,270 --> 01:10:19,840

was so i could have him on the show

1637

01:10:25,910 --> 01:10:23,280

and i i i pulled that one off um

1638

01:10:26,550 --> 01:10:25,920

but okay so let's let's get back into

1639

01:10:29,990 --> 01:10:26,560

this

1640

01:10:33,350 --> 01:10:30,000

one of the things that um not only

1641

01:10:36,709 --> 01:10:33,360

is discussed a lot on this show but

1642

01:10:37,270 --> 01:10:36,719

every physicist i have watched just like

1643

01:10:39,590 --> 01:10:37,280

you

1644

01:10:41,750 --> 01:10:39,600

right i've watched all the presentations

1645

01:10:45,030 --> 01:10:41,760

uh going back decades

1646

01:10:46,950 --> 01:10:45,040

i've watched uh all of the online

1647

01:10:49,270 --> 01:10:46,960

courses i've read all the books

1648

01:10:51,590 --> 01:10:49,280

i've listened to all of the interviews

1649

01:10:54,630 --> 01:10:51,600

and everybody gets into

1650

01:10:57,110 --> 01:10:54,640

schrodinger's cat which ends up

1651

01:10:57,990 --> 01:10:57,120

for most people confusing them right

1652

01:11:01,750 --> 01:10:58,000

just the concept

1653

01:11:05,270 --> 01:11:01,760

alone is is is crazy but um

1654

01:11:08,630 --> 01:11:05,280

it is what uh it's the go-to

1655

01:11:11,750 --> 01:11:08,640

subject for all physicists and it

1656

01:11:13,830 --> 01:11:11,760

is also uh would i be wrong

1657

01:11:16,950 --> 01:11:13,840

in saying that it is the central focus

1658

01:11:20,390 --> 01:11:16,960

of the film in in a very strange way

1659

01:11:23,430 --> 01:11:20,400

well you would be absolutely right uh

1660

01:11:26,870 --> 01:11:23,440

schrodinger's cat was just

1661

01:11:27,669 --> 01:11:26,880

irving schroedinger's way of trying to

1662

01:11:29,830 --> 01:11:27,679

make it

1663

01:11:31,270 --> 01:11:29,840

possible for the average person to

1664

01:11:34,630 --> 01:11:31,280

understand

1665

01:11:35,910 --> 01:11:34,640

the complete perplexity that the

1666

01:11:38,870 --> 01:11:35,920

physicists

1667

01:11:40,550 --> 01:11:38,880

were facing when they discovered quantum

1668

01:11:43,270 --> 01:11:40,560

mechanics

1669

01:11:45,030 --> 01:11:43,280

because and and this is this is i hope i

1670

01:11:46,550 --> 01:11:45,040

can get this across to your audience

1671

01:11:49,990 --> 01:11:46,560

because this is the whole

1672

01:11:51,830 --> 01:11:50,000

ballgame this is why quantum mechanics

1673

01:11:54,950 --> 01:11:51,840

remains to this day

1674

01:11:56,310 --> 01:11:54,960

essentially impossible for anyone to

1675

01:12:03,430 --> 01:11:56,320

believe

1676

01:12:06,790 --> 01:12:03,440

is because it works perfectly

1677

01:12:07,350 --> 01:12:06,800

our phones our computers our entire

1678

01:12:10,470 --> 01:12:07,360

world

1679

01:12:13,510 --> 01:12:10,480

works because quantum mechanics

1680

01:12:16,390 --> 01:12:13,520

is the most accurate physical theory in

1681

01:12:20,830 --> 01:12:16,400

the history of humanity

1682

01:12:24,310 --> 01:12:20,840

but what it tells us about the nature of

1683

01:12:27,910 --> 01:12:24,320

reality is so shocking

1684

01:12:31,110 --> 01:12:27,920

that 100 years further in

1685

01:12:32,229 --> 01:12:31,120

the physicists are utterly literally

1686

01:12:35,590 --> 01:12:32,239

being driven

1687

01:12:37,350 --> 01:12:35,600

insane by the implications

1688

01:12:38,870 --> 01:12:37,360

so schrodinger said how can i get this

1689

01:12:43,270 --> 01:12:38,880

across to people

1690

01:12:46,310 --> 01:12:43,280

and he thought of this idea okay

1691

01:12:50,229 --> 01:12:46,320

if we assume

1692

01:12:50,630 --> 01:12:50,239

that physics has been correct over the

1693

01:12:54,709 --> 01:12:50,640

past

1694

01:12:58,390 --> 01:12:54,719

400 years in its fundamental assumption

1695

01:13:01,590 --> 01:12:58,400

that we call reductionism

1696

01:13:04,550 --> 01:13:01,600

reductionism is the fundamental

1697

01:13:06,070 --> 01:13:04,560

magic bullet that has led to the

1698

01:13:11,430 --> 01:13:06,080

scientific revolution

1699

01:13:15,750 --> 01:13:11,440

reductionism is just this it is the idea

1700

01:13:19,590 --> 01:13:15,760

that if you take any object in the world

1701

01:13:24,070 --> 01:13:19,600

and break it down to its smallest

1702

01:13:28,310 --> 01:13:24,080

possible parts and you discover the laws

1703

01:13:31,510 --> 01:13:28,320

governing those smallest possible parts

1704

01:13:32,149 --> 01:13:31,520

you will have described every larger

1705

01:13:35,430 --> 01:13:32,159

object

1706

01:13:38,390 --> 01:13:35,440

composed of those parts

1707

01:13:38,950 --> 01:13:38,400

this is reductionism this is the idea

1708

01:13:41,510 --> 01:13:38,960

that what

1709

01:13:43,669 --> 01:13:41,520

physics is all about is getting down to

1710

01:13:45,910 --> 01:13:43,679

the bottom of the world

1711

01:13:48,310 --> 01:13:45,920

getting down to these fundamental

1712

01:13:50,950 --> 01:13:48,320

particles as they call them

1713

01:13:53,110 --> 01:13:50,960

and discovering the laws that govern

1714

01:13:56,630 --> 01:13:53,120

their behavior

1715

01:14:00,870 --> 01:13:56,640

theoretically if you can do that

1716

01:14:03,910 --> 01:14:00,880

you will be able in turn to describe all

1717

01:14:07,270 --> 01:14:03,920

of the behavior of larger objects

1718

01:14:08,630 --> 01:14:07,280

in the world and this worked beautifully

1719

01:14:11,590 --> 01:14:08,640

all the way through the newtonian

1720

01:14:18,470 --> 01:14:15,430

even einstein is essentially uh

1721

01:14:21,750 --> 01:14:18,480

compatible with this idea of a

1722

01:14:26,149 --> 01:14:21,760

reduction down to the simplest possible

1723

01:14:30,070 --> 01:14:26,159

components of reality quantum mechanics

1724

01:14:33,590 --> 01:14:30,080

blows reductionism into tiny

1725

01:14:37,750 --> 01:14:33,600

little smithereens it is the

1726

01:14:39,270 --> 01:14:37,760

end of the attempt to explain the world

1727

01:14:42,550 --> 01:14:39,280

by getting down to

1728

01:14:45,110 --> 01:14:42,560

the bottom of the world defining these

1729

01:14:46,709 --> 01:14:45,120

fundamental particles and deriving the

1730

01:14:49,990 --> 01:14:46,719

rest of reality from them

1731

01:14:51,189 --> 01:14:50,000

and here's why let's assume

1732

01:14:53,990 --> 01:14:51,199

for the sake of argument the

1733

01:14:57,110 --> 01:14:54,000

reductionism is true that a cat

1734

01:14:57,990 --> 01:14:57,120

for example is fundamentally nothing

1735

01:15:01,270 --> 01:14:58,000

other than

1736

01:15:02,310 --> 01:15:01,280

a collection of quantum particles that's

1737

01:15:06,630 --> 01:15:02,320

what a cat

1738

01:15:09,110 --> 01:15:06,640

is if we assume that to be true

1739

01:15:10,149 --> 01:15:09,120

then of course quantum mechanics will

1740

01:15:13,590 --> 01:15:10,159

apply

1741

01:15:16,310 --> 01:15:13,600

with all of the magnificent accuracy

1742

01:15:18,070 --> 01:15:16,320

that it has been shown to apply to

1743

01:15:20,950 --> 01:15:18,080

electrons and

1744

01:15:22,470 --> 01:15:20,960

and sub-atomic particles it will apply

1745

01:15:25,110 --> 01:15:22,480

just as accurately

1746

01:15:25,669 --> 01:15:25,120

to a collection of those particles like

1747

01:15:30,149 --> 01:15:25,679

a cat

1748

01:15:33,830 --> 01:15:30,159

okay if we assume that to be true

1749

01:15:34,870 --> 01:15:33,840

then we take a cat and we put that cat

1750

01:15:37,830 --> 01:15:34,880

in a box

1751

01:15:39,510 --> 01:15:37,840

so that it cannot be observed or

1752

01:15:43,990 --> 01:15:39,520

measured

1753

01:15:45,910 --> 01:15:44,000

it is just a collection of quantum

1754

01:15:48,470 --> 01:15:45,920

particles then guess what

1755

01:15:49,270 --> 01:15:48,480

Schrodinger's wave equation will

1756

01:15:52,709 --> 01:15:49,280

describe

1757

01:15:54,709 --> 01:15:52,719

that cat perfectly to such degrees of

1758

01:15:55,830 --> 01:15:54,719

accuracy that no physical theory has

1759

01:16:00,070 --> 01:15:55,840

ever even come

1760

01:16:02,149 --> 01:16:00,080

close so Schrodinger continues

1761

01:16:04,390 --> 01:16:02,159

if we take this cat and put it in the

1762

01:16:05,350 --> 01:16:04,400

box so that cannot be observed or

1763

01:16:08,550 --> 01:16:05,360

measured

1764

01:16:12,070 --> 01:16:08,560

we know that cat is described by a

1765

01:16:15,430 --> 01:16:12,080

wave function we know that wave function

1766

01:16:19,189 --> 01:16:15,440

in turn allows that cat to be in

1767

01:16:21,830 --> 01:16:19,199

many different states at the same time

1768

01:16:24,550 --> 01:16:21,840

this is the fundamental weirdness

1769

01:16:25,510 --> 01:16:24,560

of quantum mechanics when you do quantum

1770

01:16:28,870 --> 01:16:25,520

mechanics

1771

01:16:30,790 --> 01:16:28,880

the mathematics requires you to admit

1772

01:16:32,870 --> 01:16:30,800

that the quantum system can be in many

1773

01:16:35,110 --> 01:16:32,880

different places at the same time

1774

01:16:35,990 --> 01:16:35,120

can have many different momenta at the

1775

01:16:39,189 --> 01:16:36,000

same time

1776

01:16:40,070 --> 01:16:39,199

can have many different states at the

1777

01:16:44,790 --> 01:16:40,080

same

1778

01:16:46,790 --> 01:16:44,800

freaking time now if that's true

1779

01:16:48,870 --> 01:16:46,800

then when we put that cat in the box

1780

01:16:50,630 --> 01:16:48,880

that cat is in a

1781

01:16:53,030 --> 01:16:50,640

superposition they call it a

1782

01:16:56,630 --> 01:16:53,040

superposition of states

1783

01:16:57,110 --> 01:16:56,640

one of those states equates to the cat

1784

01:17:00,550 --> 01:16:57,120

being

1785

01:17:04,070 --> 01:17:00,560

alive and one of the states equates

1786

01:17:07,189 --> 01:17:04,080

to the cat being dead so let's put a

1787

01:17:10,470 --> 01:17:07,199

let's put a geiger counter in there

1788

01:17:13,750 --> 01:17:10,480

and we'll put a we'll put a a

1789

01:17:17,030 --> 01:17:13,760

a radioactive element in the box and

1790

01:17:17,910 --> 01:17:17,040

if that geiger counter registers an

1791

01:17:21,510 --> 01:17:17,920

atomic

1792

01:17:22,550 --> 01:17:21,520

decay that geiger counter is going to

1793

01:17:24,790 --> 01:17:22,560

click

1794

01:17:27,030 --> 01:17:24,800

and that's going to in turn release a

1795

01:17:28,950 --> 01:17:27,040

hammer and that's going to crack open a

1796

01:17:32,149 --> 01:17:28,960

cyanide jar

1797

01:17:35,750 --> 01:17:32,159

and that's going to kill the cat okay

1798

01:17:39,189 --> 01:17:35,760

schrodinger's point is that until

1799

01:17:42,229 --> 01:17:39,199

you open that box the cat

1800

01:17:43,550 --> 01:17:42,239

is described quantum mechanically as

1801

01:17:46,870 --> 01:17:43,560

being in a

1802

01:17:48,870 --> 01:17:46,880

superposition of state there is one

1803

01:17:50,470 --> 01:17:48,880

superposition that corresponds to the

1804

01:17:52,709 --> 01:17:50,480

cat being alive

1805

01:17:54,870 --> 01:17:52,719

and there is one that corresponds to the

1806

01:17:58,110 --> 01:17:54,880

cat being dead

1807

01:18:01,590 --> 01:17:58,120

and the only way to collapse those

1808

01:18:03,830 --> 01:18:01,600

superpositions the only way to collapse

1809

01:18:05,910 --> 01:18:03,840

that wave function

1810

01:18:07,030 --> 01:18:05,920

is to conduct a measurement or an

1811

01:18:10,470 --> 01:18:07,040

observation

1812

01:18:12,870 --> 01:18:10,480

you have to open up the box

1813

01:18:14,310 --> 01:18:12,880

that collapses the wave function of the

1814

01:18:17,110 --> 01:18:14,320

cat down to

1815

01:18:18,550 --> 01:18:17,120

one specific value the superpositions

1816

01:18:21,669 --> 01:18:18,560

disappear

1817

01:18:24,950 --> 01:18:21,679

and only one state is left

1818

01:18:27,189 --> 01:18:24,960

and schroedinger's point is what was the

1819

01:18:28,870 --> 01:18:27,199

state of that cat before i opened the

1820

01:18:31,430 --> 01:18:28,880

box

1821

01:18:32,630 --> 01:18:31,440

quantum mechanics tells us that the cat

1822

01:18:35,750 --> 01:18:32,640

was both

1823

01:18:38,630 --> 01:18:35,760

dead and alive

1824

01:18:40,550 --> 01:18:38,640

until that box was open and schroedinger

1825

01:18:43,990 --> 01:18:40,560

says this is ridiculous

1826

01:18:46,870 --> 01:18:44,000

this is absurd this cannot possibly

1827

01:18:48,149 --> 01:18:46,880

be an accurate and truthful description

1828

01:18:51,910 --> 01:18:48,159

of reality

1829

01:18:55,189 --> 01:18:51,920

however it is absolutely certain

1830

01:18:56,550 --> 01:18:55,199

that it is an accurate description of

1831

01:18:58,630 --> 01:18:56,560

the electrons

1832

01:18:59,990 --> 01:18:58,640

and subatomic particles that make up

1833

01:19:03,669 --> 01:19:00,000

that cat

1834

01:19:06,229 --> 01:19:03,679

so we have a paradox on the one hand

1835

01:19:07,990 --> 01:19:06,239

we know damned well that the cat was

1836

01:19:11,750 --> 01:19:08,000

either dead or alive before we

1837

01:19:14,870 --> 01:19:11,760

opened that box but we also know

1838

01:19:17,030 --> 01:19:14,880

that if the cat is nothing other than a

1839

01:19:20,070 --> 01:19:17,040

collection of quantum particles

1840

01:19:22,149 --> 01:19:20,080

then it was both dead and alive that is

1841

01:19:25,270 --> 01:19:22,159

the fundamental paradox

1842

01:19:27,430 --> 01:19:25,280

of quantum reality why is it that the

1843

01:19:29,910 --> 01:19:27,440

world that we live in

1844

01:19:31,669 --> 01:19:29,920

we don't see cats multi-located we don't

1845

01:19:34,390 --> 01:19:31,679

see dead in the live cats

1846

01:19:36,390 --> 01:19:34,400

we don't see billiard balls in 17 000

1847

01:19:37,910 --> 01:19:36,400

different locations and a sort of cloud

1848

01:19:40,070 --> 01:19:37,920

around the pool table

1849

01:19:41,510 --> 01:19:40,080

that's not the world we live in that's

1850

01:19:46,070 --> 01:19:41,520

not the world

1851

01:19:49,350 --> 01:19:46,080

as we perceive it so what gives here

1852

01:19:51,750 --> 01:19:49,360

is it possible that we are simply being

1853

01:19:54,709 --> 01:19:51,760

subjected to some kind of drastic

1854

01:19:56,870 --> 01:19:54,719

cosmic conspiracy that that in fact in

1855

01:19:57,350 --> 01:19:56,880

some universe the cat is dead all the

1856

01:19:59,189 --> 01:19:57,360

time in

1857

01:20:01,270 --> 01:19:59,199

another universe the cat is alive all

1858

01:20:03,189 --> 01:20:01,280

the time and when we open that box we

1859

01:20:05,590 --> 01:20:03,199

split the universe off

1860

01:20:06,470 --> 01:20:05,600

into one particular version of the

1861

01:20:08,669 --> 01:20:06,480

universe

1862

01:20:10,550 --> 01:20:08,679

that's how lost they are that's how

1863

01:20:13,590 --> 01:20:10,560

absolutely

1864

01:20:16,870 --> 01:20:13,600

lost one has to be

1865

01:20:21,270 --> 01:20:16,880

in order to hold on to this idea of

1866

01:20:24,310 --> 01:20:21,280

reductionism the other alternative

1867

01:20:27,189 --> 01:20:24,320

is even scarier for most people

1868

01:20:29,750 --> 01:20:27,199

the other alternative is that the world

1869

01:20:32,229 --> 01:20:29,760

does not reduce to the particles and

1870

01:20:34,390 --> 01:20:32,239

fields and equations of physics

1871

01:20:35,750 --> 01:20:34,400

that there is something actually

1872

01:20:39,510 --> 01:20:35,760

operative

1873

01:20:41,350 --> 01:20:39,520

in the world that yields the world that

1874

01:20:44,470 --> 01:20:41,360

we live in

1875

01:20:45,350 --> 01:20:44,480

and is superior is above in a causative

1876

01:20:47,669 --> 01:20:45,360

sense

1877

01:20:48,470 --> 01:20:47,679

the causation that collapses the wave

1878

01:20:51,189 --> 01:20:48,480

function

1879

01:20:52,629 --> 01:20:51,199

is not bubbling up from below as the

1880

01:20:56,390 --> 01:20:52,639

reductionist

1881

01:20:59,510 --> 01:20:56,400

theory would require but something above

1882

01:21:00,390 --> 01:20:59,520

that level this causation emanating from

1883

01:21:02,629 --> 01:21:00,400

above

1884

01:21:04,470 --> 01:21:02,639

the level of quantum mechanics that

1885

01:21:07,910 --> 01:21:04,480

collapses the wave function

1886

01:21:10,790 --> 01:21:07,920

and yields the world in which every cat

1887

01:21:12,470 --> 01:21:10,800

is either dead or alive so the question

1888

01:21:16,229 --> 01:21:12,480

is real simple

1889

01:21:20,070 --> 01:21:16,239

is reality quantum in nature

1890

01:21:23,189 --> 01:21:20,080

or is reality not quantum in nature

1891

01:21:27,510 --> 01:21:26,070

this question is of such profound

1892

01:21:30,870 --> 01:21:27,520

importance

1893

01:21:31,750 --> 01:21:30,880

it is far it it will determine the

1894

01:21:35,669 --> 01:21:31,760

future

1895

01:21:37,270 --> 01:21:35,679

to a far greater extent than copernicus

1896

01:21:39,110 --> 01:21:37,280

changed the future

1897

01:21:41,830 --> 01:21:39,120

with his heliocentric theory that

1898

01:21:43,669 --> 01:21:41,840

changed the entire picture of the world

1899

01:21:45,030 --> 01:21:43,679

how we answer this question about

1900

01:21:47,750 --> 01:21:45,040

quantum reality

1901

01:21:49,430 --> 01:21:47,760

will determine the kind of world that

1902

01:21:53,510 --> 01:21:49,440

our children and their children

1903

01:21:54,470 --> 01:21:53,520

grow up in do we do the physicists and

1904

01:21:57,669 --> 01:21:54,480

the quantum

1905

01:22:00,870 --> 01:21:57,679

mechanics side of things do they

1906

01:22:01,910 --> 01:22:00,880

wield too much power and before you

1907

01:22:04,470 --> 01:22:01,920

answer that

1908

01:22:07,590 --> 01:22:04,480

well before you yeah before you answer

1909

01:22:11,030 --> 01:22:09,910

we and i'm talking about the status quo

1910

01:22:14,709 --> 01:22:11,040

the average person

1911

01:22:18,470 --> 01:22:14,719

right i can't interpret the algorithms

1912

01:22:21,750 --> 01:22:18,480

i can't interpret the math uh we depend

1913

01:22:26,149 --> 01:22:21,760

on the physicists in these equations

1914

01:22:29,270 --> 01:22:26,159

to represent those to us in theatrics

1915

01:22:32,229 --> 01:22:29,280

right to explain what these uh

1916

01:22:32,629 --> 01:22:32,239

what these numbers and symbols mean we

1917

01:22:35,030 --> 01:22:32,639

don't

1918

01:22:36,709 --> 01:22:35,040

know do they wield too much power

1919

01:22:39,830 --> 01:22:36,719

because of that

1920

01:22:40,709 --> 01:22:39,840

they absolutely do it it's analogous i

1921

01:22:44,709 --> 01:22:40,719

think to

1922

01:22:46,390 --> 01:22:44,719

um look at the world that we had before

1923

01:22:49,110 --> 01:22:46,400

the enlightenment

1924

01:22:52,070 --> 01:22:49,120

the magic box in that world was the

1925

01:22:54,870 --> 01:22:52,080

catholic magisterium

1926

01:22:55,189 --> 01:22:54,880

catholic church was it was in possession

1927

01:22:59,030 --> 01:22:55,199

of

1928

01:23:02,709 --> 01:22:59,040

oracular knowledge direct from

1929

01:23:07,669 --> 01:23:02,719

god and any question

1930

01:23:11,709 --> 01:23:07,679

that impinged upon the catholic faith

1931

01:23:15,270 --> 01:23:11,719

would be in solidly uh

1932

01:23:17,590 --> 01:23:15,280

ex-postulated punishable right

1933

01:23:18,310 --> 01:23:17,600

and the world would would operate based

1934

01:23:20,390 --> 01:23:18,320

on that

1935

01:23:21,430 --> 01:23:20,400

in other words that's where we went for

1936

01:23:24,950 --> 01:23:21,440

our answers

1937

01:23:28,310 --> 01:23:24,960

right now my question to you is

1938

01:23:30,070 --> 01:23:28,320

did they have too much power well i can

1939

01:23:31,830 --> 01:23:30,080

certainly think of

1940

01:23:33,510 --> 01:23:31,840

several people who would probably argue

1941

01:23:35,350 --> 01:23:33,520

that in fact they did

1942

01:23:36,790 --> 01:23:35,360

i think galileo would have something to

1943

01:23:39,270 --> 01:23:36,800

say about that i think he would

1944

01:23:41,110 --> 01:23:39,280

and and and certainly bruno bruno for

1945

01:23:42,790 --> 01:23:41,120

bruno he

1946

01:23:44,310 --> 01:23:42,800

actually got away got got off pretty

1947

01:23:46,390 --> 01:23:44,320

easy i mean he lived in luxury

1948

01:23:49,669 --> 01:23:46,400

apartments for a few years

1949

01:23:51,430 --> 01:23:49,679

bruno burned yes he got toasted yes

1950

01:23:54,709 --> 01:23:51,440

and so here's the thing now i have

1951

01:23:57,669 --> 01:23:54,719

looked at this very carefully and i have

1952

01:23:58,229 --> 01:23:57,679

i have my own very deep conclusions on

1953

01:24:01,590 --> 01:23:58,239

this

1954

01:24:04,470 --> 01:24:01,600

which i rigorously try to separate

1955

01:24:05,910 --> 01:24:04,480

from any of the work that i do right

1956

01:24:09,189 --> 01:24:05,920

here and right now

1957

01:24:12,790 --> 01:24:09,199

because at the end of the day

1958

01:24:15,990 --> 01:24:12,800

i have no right to insist that you

1959

01:24:19,430 --> 01:24:16,000

jimmy believe what i

1960

01:24:21,430 --> 01:24:19,440

believe because i tell you i'm sure i'm

1961

01:24:24,390 --> 01:24:21,440

right about it

1962

01:24:25,750 --> 01:24:24,400

i can be as convinced as possible that i

1963

01:24:27,990 --> 01:24:25,760

am right

1964

01:24:29,350 --> 01:24:28,000

the problem comes when i try to say

1965

01:24:32,950 --> 01:24:29,360

jimmy

1966

01:24:35,430 --> 01:24:32,960

for your own good now

1967

01:24:37,070 --> 01:24:35,440

i'm going to have to ask you to sign

1968

01:24:40,390 --> 01:24:37,080

this piece of paper

1969

01:24:43,590 --> 01:24:40,400

unfortunately we no longer

1970

01:24:47,189 --> 01:24:43,600

live in a world

1971

01:24:50,390 --> 01:24:47,199

where that's possible and

1972

01:24:53,430 --> 01:24:50,400

the reaction against that was precisely

1973

01:24:56,830 --> 01:24:53,440

enlightenment science and

1974

01:25:00,870 --> 01:24:56,840

the scientists said we will no longer

1975

01:25:04,149 --> 01:25:00,880

accept on authority

1976

01:25:08,550 --> 01:25:04,159

answers to questions which we propose

1977

01:25:12,709 --> 01:25:08,560

can be better answered by experimental

1978

01:25:15,669 --> 01:25:12,719

tests that is the most radical idea

1979

01:25:17,110 --> 01:25:15,679

since the gospels and the simplest and

1980

01:25:20,870 --> 01:25:17,120

the simplest

1981

01:25:24,709 --> 01:25:20,880

right and here's here's the irony jimmy

1982

01:25:28,390 --> 01:25:24,719

the pendulum has swung all the way

1983

01:25:30,470 --> 01:25:28,400

over to the other extreme our miracles

1984

01:25:34,390 --> 01:25:30,480

come from laboratories

1985

01:25:37,430 --> 01:25:34,400

our oracles are the scientists

1986

01:25:41,030 --> 01:25:37,440

and what have they done well

1987

01:25:44,070 --> 01:25:41,040

quite predictably what they have done

1988

01:25:47,110 --> 01:25:44,080

is they have created for themselves a

1989

01:25:47,910 --> 01:25:47,120

monumental propaganda apparatus to make

1990

01:25:51,669 --> 01:25:47,920

sure

1991

01:25:56,470 --> 01:25:51,679

nobody questions them especially on

1992

01:26:00,550 --> 01:25:56,480

fundamental issues issues like

1993

01:26:03,590 --> 01:26:00,560

where does the universe come from right

1994

01:26:06,070 --> 01:26:03,600

how does the universe operate

1995

01:26:07,510 --> 01:26:06,080

these are questions which have become

1996

01:26:10,550 --> 01:26:07,520

the province

1997

01:26:13,590 --> 01:26:10,560

of the enlightenment research

1998

01:26:16,149 --> 01:26:13,600

project and here's the dirty little

1999

01:26:18,870 --> 01:26:16,159

secret and it's not so much of a secret

2000

01:26:19,350 --> 01:26:18,880

for most people it still is but i can

2001

01:26:23,030 --> 01:26:19,360

tell you

2002

01:26:25,030 --> 01:26:23,040

for sure that the world story

2003

01:26:27,669 --> 01:26:25,040

that the enlightenment has with

2004

01:26:30,550 --> 01:26:27,679

fanatical brilliance

2005

01:26:31,430 --> 01:26:30,560

developed over the past four centuries

2006

01:26:39,030 --> 01:26:31,440

has

2007

01:26:42,709 --> 01:26:39,040

it no longer coheres

2008

01:26:45,669 --> 01:26:42,719

we do not have in the

2009

01:26:47,030 --> 01:26:45,679

materialist reductionist scientific

2010

01:26:50,790 --> 01:26:47,040

enterprise

2011

01:26:52,550 --> 01:26:50,800

a coherent explanation for any of the

2012

01:26:55,189 --> 01:26:52,560

questions

2013

01:26:56,149 --> 01:26:55,199

that we have entrusted this research

2014

01:26:58,790 --> 01:26:56,159

program

2015

01:27:00,470 --> 01:26:58,800

to give us the answers to i'll give you

2016

01:27:03,030 --> 01:27:00,480

an example

2017

01:27:04,149 --> 01:27:03,040

i would say that at least 90 percent of

2018

01:27:06,870 --> 01:27:04,159

the

2019

01:27:07,669 --> 01:27:06,880

people listening to my voice right now

2020

01:27:10,310 --> 01:27:07,679

were taught

2021

01:27:12,149 --> 01:27:10,320

in school that there was this thing

2022

01:27:14,149 --> 01:27:12,159

called the big bang

2023

01:27:15,830 --> 01:27:14,159

and it happened well when it happened it

2024

01:27:18,070 --> 01:27:15,840

changes every

2025

01:27:19,669 --> 01:27:18,080

every time they send up a new satellite

2026

01:27:21,990 --> 01:27:19,679

the amount of years changes

2027

01:27:22,870 --> 01:27:22,000

but it's the order of magnitude stays

2028

01:27:26,310 --> 01:27:22,880

about the same

2029

01:27:29,510 --> 01:27:26,320

something around 13.6 13.8

2030

01:27:32,870 --> 01:27:29,520

billion years ago

2031

01:27:35,990 --> 01:27:32,880

this thing called the big bang happened

2032

01:27:39,110 --> 01:27:36,000

and every single thing that has

2033

01:27:42,550 --> 01:27:39,120

occurred since then

2034

01:27:47,110 --> 01:27:42,560

in terms of the motions of objects

2035

01:27:50,950 --> 01:27:47,120

in this universe can implicitly

2036

01:27:53,990 --> 01:27:50,960

be scientifically calculated

2037

01:27:55,350 --> 01:27:54,000

based on our present understanding of

2038

01:27:57,590 --> 01:27:55,360

physics

2039

01:27:58,830 --> 01:27:57,600

and anybody who doesn't believe that is

2040

01:28:02,629 --> 01:27:58,840

either a

2041

01:28:05,830 --> 01:28:02,639

crackpot or a pseudo scientist

2042

01:28:06,629 --> 01:28:05,840

or a religious nut that's essentially

2043

01:28:09,750 --> 01:28:06,639

the vel

2044

01:28:11,910 --> 01:28:09,760

glove

2045

01:28:13,510 --> 01:28:11,920

do you think it's changed yeah do you

2046

01:28:15,990 --> 01:28:13,520

think it's changing

2047

01:28:16,550 --> 01:28:16,000

uh it's over it's not only changing

2048

01:28:19,870 --> 01:28:16,560

their

2049

01:28:22,229 --> 01:28:19,880

own story doesn't hold together even

2050

01:28:23,830 --> 01:28:22,239

approximately anymore let me give you

2051

01:28:27,510 --> 01:28:23,840

just a couple of brief examples

2052

01:28:27,990 --> 01:28:27,520

sure okay so the big bang happened 13.8

2053

01:28:31,030 --> 01:28:28,000

billion years

2054

01:28:34,229 --> 01:28:31,040

ago and we know that because

2055

01:28:35,350 --> 01:28:34,239

they tell us yeah well because it has to

2056

01:28:37,669 --> 01:28:35,360

have been 30

2057

01:28:38,390 --> 01:28:37,679

because that's how long it would take

2058

01:28:42,470 --> 01:28:38,400

for

2059

01:28:45,430 --> 01:28:42,480

the primeval uh singularity

2060

01:28:47,030 --> 01:28:45,440

to reach the point where we would see a

2061

01:28:48,709 --> 01:28:47,040

universe that looks like this one oh

2062

01:28:50,870 --> 01:28:48,719

well that's very impressive

2063

01:28:53,590 --> 01:28:50,880

how do you know that well we have

2064

01:28:54,629 --> 01:28:53,600

einstein's theory of gravitation general

2065

01:28:58,229 --> 01:28:54,639

relativity

2066

01:29:00,229 --> 01:28:58,239

oh well wait a minute you're telling me

2067

01:29:01,590 --> 01:29:00,239

that einstein's cereal gravitation

2068

01:29:04,950 --> 01:29:01,600

predicts

2069

01:29:07,430 --> 01:29:04,960

the sky that we observe well

2070

01:29:08,870 --> 01:29:07,440

not exactly we're a little bit off we

2071

01:29:11,590 --> 01:29:08,880

need to add a couple of

2072

01:29:12,550 --> 01:29:11,600

things in or really like what well we

2073

01:29:14,470 --> 01:29:12,560

need to add in

2074

01:29:16,310 --> 01:29:14,480

uh some missing matter because we're a

2075

01:29:18,950 --> 01:29:16,320

little bit off we can't quite

2076

01:29:20,790 --> 01:29:18,960

get the gravitational formulas to work

2077

01:29:22,790 --> 01:29:20,800

based on the matter we see in our

2078

01:29:25,669 --> 01:29:22,800

telescopes oh so how much are you up

2079

01:29:26,790 --> 01:29:25,679

a percent two percent well it's a little

2080

01:29:29,830 --> 01:29:26,800

more than that

2081

01:29:34,070 --> 01:29:29,840

well how much more well frankly we're

2082

01:29:37,510 --> 01:29:34,080

off by 95.9

2083

01:29:40,110 --> 01:29:37,520

what are you kidding me you have to add

2084

01:29:45,669 --> 01:29:42,709

95.9

2085

01:29:45,990 --> 01:29:45,679

of the mass and energy of the universe

2086

01:29:51,990 --> 01:29:46,000

of

2087

01:29:54,790 --> 01:29:52,000

make einstein's equations work

2088

01:29:56,310 --> 01:29:54,800

yes and they're only they're only at

2089

01:30:00,550 --> 01:29:56,320

that point

2090

01:30:02,790 --> 01:30:00,560

now

2091

01:30:05,030 --> 01:30:02,800

and there's one other thing we're up

2092

01:30:08,790 --> 01:30:05,040

against a break i've only got 30 seconds

2093

01:30:09,189 --> 01:30:08,800

but if we go back to when einstein was

2094

01:30:11,990 --> 01:30:09,199

here

2095

01:30:13,350 --> 01:30:12,000

right southern california mount wilson

2096

01:30:16,149 --> 01:30:13,360

up there with hollywood

2097

01:30:16,790 --> 01:30:16,159

i've been to that i've sat in the chair

2098

01:30:19,270 --> 01:30:16,800

he sat

2099

01:30:21,590 --> 01:30:19,280

in and and and einstein didn't believe

2100

01:30:23,910 --> 01:30:21,600

it until he looked in that telescope

2101
01:30:25,750 --> 01:30:23,920
and started to see what hubble was

2102
01:30:28,149 --> 01:30:25,760
seeing and measuring

2103
01:30:29,910 --> 01:30:28,159
and and even einstein he thought

2104
01:30:32,229 --> 01:30:29,920
everything was static up to that point

2105
01:30:33,510 --> 01:30:32,239
he was exactly right that's right that's

2106
01:30:36,229 --> 01:30:33,520
exactly right

2107
01:30:37,270 --> 01:30:36,239
and it took it it was it was hubble blew

2108
01:30:41,590 --> 01:30:37,280
the entire

2109
01:30:45,270 --> 01:30:41,600
he blew he he blew his own mind

2110
01:30:46,229 --> 01:30:45,280
hubble was the one who saw all of these

2111
01:30:48,870 --> 01:30:46,239
redshifts

2112
01:30:51,350 --> 01:30:48,880
everywhere he looked in the sky and he

2113
01:30:55,189 --> 01:30:51,360

was smart enough to realize

2114

01:30:58,790 --> 01:30:55,199

okay if if everything that i can

2115

01:31:02,870 --> 01:30:58,800

see in all directions is moving

2116

01:31:06,229 --> 01:31:02,880

away from me faster what

2117

01:31:10,229 --> 01:31:06,239

what does that tell us about where i

2118

01:31:12,310 --> 01:31:10,239

am in relation to all that stuff

2119

01:31:13,350 --> 01:31:12,320

it was an incredible thing yeah go ahead

2120

01:31:17,030 --> 01:31:13,360

it tells me that i am

2121

01:31:19,270 --> 01:31:17,040

directly in the freaking center

2122

01:31:20,790 --> 01:31:19,280

of all that stuff and this freaked him

2123

01:31:22,629 --> 01:31:20,800

out so bad he

2124

01:31:25,189 --> 01:31:22,639

in his book uh of the observational

2125

01:31:27,270 --> 01:31:25,199

approach to cosmology he literally has

2126
01:31:29,990 --> 01:31:27,280
sort of a nervous breakdown trying to

2127
01:31:33,030 --> 01:31:30,000
say this is intolerable

2128
01:31:36,070 --> 01:31:33,040
we have to find some way to explain this

2129
01:31:39,430 --> 01:31:36,080
there has to be some other answer

2130
01:31:42,470 --> 01:31:39,440
because the simplest answer

2131
01:31:44,950 --> 01:31:42,480
to what i see in my telescope tells us

2132
01:31:46,390 --> 01:31:44,960
that the ancient idea of earth in the

2133
01:31:49,110 --> 01:31:46,400
center of the universe

2134
01:31:49,669 --> 01:31:49,120
is exactly what my telescope is telling

2135
01:31:51,350 --> 01:31:49,679
me

2136
01:31:52,870 --> 01:31:51,360
let's take our break right here rick i

2137
01:31:55,110 --> 01:31:52,880
got to jump in

2138
01:31:55,910 --> 01:31:55,120

we're against a hard break this is fade

2139

01:31:58,550 --> 01:31:55,920

to black

2140

01:32:00,870 --> 01:31:58,560

i am your host jimmy church tonight rick

2141

01:32:03,910 --> 01:32:00,880

delano we are talking about his new film

2142

01:32:05,510 --> 01:32:03,920

it is out now the end of quantum

2143

01:32:12,770 --> 01:32:05,520

reality i'm your host jimmy church this

2144

01:32:25,590 --> 01:32:12,780

is fade to black stay with us

2145

01:32:31,830 --> 01:32:28,790

way out here we listen to jimmy church

2146

01:32:33,750 --> 01:32:31,840

you're listening to fade to black

2147

01:32:34,870 --> 01:32:33,760

always on the edge of the hottest

2148

01:32:38,830 --> 01:32:34,880

alternative talk

2149

01:32:42,320 --> 01:32:38,840

jimmy church with fade to black

2150

01:32:42,330 --> 01:32:53,750

[Applause]

2151
01:32:57,830 --> 01:32:55,830
do you want to be an official fate or

2152
01:32:59,830 --> 01:32:57,840
not of course you do

2153
01:33:01,830 --> 01:32:59,840
this is jimmy church of fade to black

2154
01:33:05,590 --> 01:33:01,840
just go to our membership section

2155
01:33:07,030 --> 01:33:05,600
at jimmychurchradio.com old new england

2156
01:33:09,189 --> 01:33:07,040
soap is committed to producing the

2157
01:33:10,149 --> 01:33:09,199
highest quality organic and goat milk

2158
01:33:12,310 --> 01:33:10,159
soaps available

2159
01:33:14,070 --> 01:33:12,320
anywhere we take pride in using the

2160
01:33:15,910 --> 01:33:14,080
purest ingredients and avoiding the

2161
01:33:16,629 --> 01:33:15,920
typical shortcuts used by other soap

2162
01:33:18,229 --> 01:33:16,639
makers

2163
01:33:20,310 --> 01:33:18,239

because goat milk is what feeds your

2164

01:33:22,790 --> 01:33:20,320

skin we have formulated our soap to use

2165

01:33:25,189 --> 01:33:22,800

the maximum amount of gold milk possible

2166

01:33:25,830 --> 01:33:25,199

38 percent more than double any other

2167

01:33:27,990 --> 01:33:25,840

brand

2168

01:33:29,510 --> 01:33:28,000

not because it's easy but because our

2169

01:33:31,030 --> 01:33:29,520

soap is always better

2170

01:33:32,950 --> 01:33:31,040

we are proud to offer you what we

2171

01:33:34,149 --> 01:33:32,960

consider to be truly premium quality

2172

01:33:36,149 --> 01:33:34,159

handmade soaps

2173

01:33:38,070 --> 01:33:36,159

what's more our soap does not contain

2174

01:33:40,709 --> 01:33:38,080

gmo ingredients pesticides

2175

01:33:42,229 --> 01:33:40,719

sulfates dyes artificial colors alcohol

2176

01:33:44,310 --> 01:33:42,239

or petroleum products

2177

01:33:45,910 --> 01:33:44,320

try our new shampoo bar and pooch soap

2178

01:33:47,910 --> 01:33:45,920

and be sure to see all of the great

2179

01:33:50,149 --> 01:33:47,920

scented wood wick soy candles that burn

2180

01:33:52,550 --> 01:33:50,159

soot free for up to 100 hours

2181

01:33:55,350 --> 01:33:52,560

right now save 15 percent on your order

2182

01:33:58,990 --> 01:33:55,360

and get free shipping and orders over 45

2183

01:34:00,149 --> 01:33:59,000

buy now at oldanniesoap.com that's

2184

01:34:05,030 --> 01:34:00,159

oldannessoap.com

2185

01:34:09,070 --> 01:34:05,040

not available in source oldnesoap.com

2186

01:34:11,350 --> 01:34:09,080

so you love talk radio then you'll love

2187

01:34:13,910 --> 01:34:11,360

talkstreamlive.com talk stream live

2188

01:34:15,189 --> 01:34:13,920

is always on 24 7 with the best

2189

01:34:17,270 --> 01:34:15,199

streaming talk shows

2190

01:34:18,790 --> 01:34:17,280

find your favorite talkers and discover

2191

01:34:21,430 --> 01:34:18,800

some new ones it's free

2192

01:34:23,110 --> 01:34:21,440

readily available online or on mobile

2193

01:34:25,189 --> 01:34:23,120

with any smartphone or tablet

2194

01:34:27,910 --> 01:34:25,199

finding your favorite talk shows all in

2195

01:34:30,709 --> 01:34:27,920

one place has gotten a whole lot easier

2196

01:34:47,669 --> 01:34:30,719

just go to talkstreamlive.com be sure to

2197

01:34:50,229 --> 01:34:47,679

download down!

2198

01:34:52,390 --> 01:34:50,239

telepath is a weekly digital newsletter

2199

01:34:54,790 --> 01:34:52,400

filled with the latest paranormal news

2200

01:34:56,550 --> 01:34:54,800

trending topics and fresh articles from

2201
01:34:58,629 --> 01:34:56,560
some of the most popular critical

2202
01:35:00,070 --> 01:34:58,639
thinkers in the community today

2203
01:35:02,709 --> 01:35:00,080
stay informed on your favorite

2204
01:35:03,510 --> 01:35:02,719
paranormal podcasts and live streaming

2205
01:35:05,430 --> 01:35:03,520
talk shows

2206
01:35:06,950 --> 01:35:05,440
interact with the telepath and upload

2207
01:35:08,870 --> 01:35:06,960
your paranormal story or

2208
01:35:10,070 --> 01:35:08,880
picks it could be featured in an

2209
01:35:12,629 --> 01:35:10,080
upcoming edition

2210
01:35:14,310 --> 01:35:12,639
sign up right now for the free telepath

2211
01:35:18,070 --> 01:35:14,320
newsletter at paranormal

2212
01:35:19,590 --> 01:35:18,080
dot radio that's paranormal dot radio

2213
01:35:22,470 --> 01:35:19,600

including the network you're listening

2214

01:35:26,830 --> 01:35:22,480

to right now the paranormal radio app

2215

01:35:28,310 --> 01:35:26,840

free in google play and the ios app

2216

01:35:30,310 --> 01:35:28,320

store

2217

01:35:35,109 --> 01:35:30,320

you are listening to fate to black with

2218

01:35:38,709 --> 01:35:37,669

hi i'm reece vance you're listening to

2219

01:35:41,910 --> 01:35:38,719

jimmy church

2220

01:35:43,189 --> 01:35:41,920

this is revolution the revolution will

2221

01:35:50,440 --> 01:35:43,199

not be televised

2222

01:35:50,450 --> 01:35:54,830

[Music]

2223

01:35:54,840 --> 01:36:01,210

ciao

2224

01:36:25,340 --> 01:36:22,830

[Music]

2225

01:36:29,990 --> 01:36:25,350

then

2226

01:36:33,510 --> 01:36:31,830

welcome back fade to black i'm your host

2227

01:36:34,870 --> 01:36:33,520

jimmy church and one of the things i

2228

01:36:38,790 --> 01:36:34,880

have been talking about

2229

01:36:41,189 --> 01:36:38,800

all week on this show and last week

2230

01:36:43,270 --> 01:36:41,199

is about what is going on right now with

2231

01:36:46,470 --> 01:36:43,280

you and your personal data because

2232

01:36:49,189 --> 01:36:46,480

last year websites shared over 100

2233

01:36:52,629 --> 01:36:49,199

trillion pieces of personal data

2234

01:36:55,510 --> 01:36:52,639

your personal data the data has been

2235

01:36:57,270 --> 01:36:55,520

taken from you and on the website that

2236

01:36:59,750 --> 01:36:57,280

you are on right now

2237

01:37:01,430 --> 01:36:59,760

that's right and i don't like being

2238

01:37:03,830 --> 01:37:01,440

spied on by advertisers

2239

01:37:06,629 --> 01:37:03,840

which i don't like being spied on by

2240

01:37:07,750 --> 01:37:06,639

anybody i run a lot of computers here in

2241

01:37:10,790 --> 01:37:07,760

the bunker

2242

01:37:13,109 --> 01:37:10,800

six computers run this show each night

2243

01:37:14,790 --> 01:37:13,119

to get it out to you each one of them

2244

01:37:17,669 --> 01:37:14,800

runs virtual shield

2245

01:37:19,510 --> 01:37:17,679

vpn if you want to browse the internet

2246

01:37:22,430 --> 01:37:19,520

anonymously and securely

2247

01:37:23,910 --> 01:37:22,440

like i do you need to visit

2248

01:37:27,350 --> 01:37:23,920

virtualshield.com

2249

01:37:28,910 --> 01:37:27,360

forward slash fade to black very simple

2250

01:37:30,149 --> 01:37:28,920

we have banners over at

2251

01:37:32,550 --> 01:37:30,159

jimmychurchradio.com

2252

01:37:35,030 --> 01:37:32,560

and you can also click on the link in

2253

01:37:37,669 --> 01:37:35,040

the video description box below

2254

01:37:38,229 --> 01:37:37,679

and when you do you will get virtual

2255

01:37:41,830 --> 01:37:38,239

shield

2256

01:37:42,310 --> 01:37:41,840

vpn for free today click on the link and

2257

01:37:45,430 --> 01:37:42,320

get

2258

01:37:46,950 --> 01:37:45,440

virtual shield do it now i'm your host

2259

01:37:47,750 --> 01:37:46,960

jimmy church our guest tonight rick

2260

01:37:49,669 --> 01:37:47,760

delano

2261

01:37:51,910 --> 01:37:49,679

and we're talking about his new film the

2262

01:37:52,870 --> 01:37:51,920

end of quantum reality and before the

2263

01:37:55,910 --> 01:37:52,880

break

2264

01:37:58,390 --> 01:37:55,920
when uh we're discussing these

2265

01:38:00,790 --> 01:37:58,400
amazing uh discoveries that happened all

2266

01:38:01,350 --> 01:38:00,800
the way back in 1922 with edwin hubble

2267

01:38:04,070 --> 01:38:01,360
and

2268

01:38:05,590 --> 01:38:04,080
convincing albert einstein that the

2269

01:38:08,629 --> 01:38:05,600
universe was not only

2270

01:38:10,390 --> 01:38:08,639
expanding and not static but it was

2271

01:38:13,030 --> 01:38:10,400
speeding up and all of this wasn't

2272

01:38:16,550 --> 01:38:13,040
confirmed as we know now today rick

2273

01:38:18,310 --> 01:38:16,560
all the way until 1998 and today the

2274

01:38:20,790 --> 01:38:18,320
discussion is about

2275

01:38:22,070 --> 01:38:20,800
uh what is actually doing this and you

2276

01:38:24,390 --> 01:38:22,080

know dark energy

2277

01:38:25,669 --> 01:38:24,400

we can't see it we can't measure it but

2278

01:38:28,870 --> 01:38:25,679

this is actually

2279

01:38:30,950 --> 01:38:28,880

what is happening right now and

2280

01:38:32,310 --> 01:38:30,960

and that's where we are today and i'm

2281

01:38:34,709 --> 01:38:32,320

not sure that

2282

01:38:36,310 --> 01:38:34,719

uh the physicists and astrophysicists

2283

01:38:38,790 --> 01:38:36,320

out there in the world can even answer

2284

01:38:41,590 --> 01:38:38,800

these questions

2285

01:38:43,270 --> 01:38:41,600

well it's it's even worse than that

2286

01:38:46,870 --> 01:38:43,280

jimmy

2287

01:38:50,310 --> 01:38:46,880

these ideas dark matter and dark energy

2288

01:38:52,709 --> 01:38:50,320

we are constantly treated to expositions

2289

01:38:54,950 --> 01:38:52,719

about what these things might be

2290

01:38:56,629 --> 01:38:54,960

it's admitted that yes strangely enough

2291

01:38:59,830 --> 01:38:56,639

we haven't found the slightest

2292

01:39:03,189 --> 01:38:59,840

evidence for either of these things

2293

01:39:04,870 --> 01:39:03,199

which by the way make up 95.9 percent of

2294

01:39:06,470 --> 01:39:04,880

the massive energy in the universe in

2295

01:39:08,709 --> 01:39:06,480

other words

2296

01:39:11,990 --> 01:39:08,719

the mainstream science story today

2297

01:39:16,709 --> 01:39:12,000

requires us to believe

2298

01:39:20,470 --> 01:39:16,719

that we are unable to detect

2299

01:39:23,669 --> 01:39:20,480

what constitutes 96 of the universe

2300

01:39:26,070 --> 01:39:23,679

just that we can observe now that's

2301

01:39:28,550 --> 01:39:26,080

pretty disquieting to me

2302

01:39:29,350 --> 01:39:28,560

but okay let's say for the sake of

2303

01:39:33,669 --> 01:39:29,360

argument that

2304

01:39:34,550 --> 01:39:33,679

that's just the way it is we have 95.9

2305

01:39:39,030 --> 01:39:34,560

percent

2306

01:39:41,990 --> 01:39:39,040

of the universe

2307

01:39:42,470 --> 01:39:42,000

that has so far managed to escape the

2308

01:39:47,430 --> 01:39:42,480

most

2309

01:39:50,149 --> 01:39:47,440

exquisite attempts to detect them okay

2310

01:39:50,629 --> 01:39:50,159

what's the other possibility that no one

2311

01:39:54,550 --> 01:39:50,639

ever

2312

01:39:58,070 --> 01:39:54,560

talks about the other possibility jimmy

2313

01:40:01,189 --> 01:39:58,080

is that dark energy and dark matter

2314

01:40:04,790 --> 01:40:01,199

are simply terms

2315

01:40:10,629 --> 01:40:04,800

added into the einstein equations

2316

01:40:14,310 --> 01:40:10,639

to bridge the otherwise insuperable gap

2317

01:40:17,109 --> 01:40:14,320

between theory and observation

2318

01:40:18,229 --> 01:40:17,119

in other words the other possibility is

2319

01:40:21,109 --> 01:40:18,239

that our theories

2320

01:40:21,350 --> 01:40:21,119

are wrong that's right and we are and we

2321

01:40:25,189 --> 01:40:21,360

are

2322

01:40:28,790 --> 01:40:25,199

patching them up with these

2323

01:40:30,470 --> 01:40:28,800

hand-waving appeals to dark matter and

2324

01:40:34,830 --> 01:40:30,480

dark energy

2325

01:40:37,990 --> 01:40:34,840

because we know they have to be there

2326

01:40:41,350 --> 01:40:38,000

otherwise our theories

2327

01:40:44,629 --> 01:40:41,360

are drastically falsified

2328

01:40:45,750 --> 01:40:44,639

by direct observation now this second

2329

01:40:49,750 --> 01:40:45,760

possibility

2330

01:40:51,750 --> 01:40:49,760

is essentially never talked about

2331

01:40:53,590 --> 01:40:51,760

as a matter of fact to even raise this

2332

01:40:57,669 --> 01:40:53,600

possibility

2333

01:41:01,990 --> 01:40:57,679

is to earn yourself a stern

2334

01:41:04,070 --> 01:41:02,000

rebuke as you know either a crackpot or

2335

01:41:06,870 --> 01:41:04,080

a pseudo-scientist or a religious

2336

01:41:07,750 --> 01:41:06,880

fundamentalist to even raise these

2337

01:41:11,030 --> 01:41:07,760

questions

2338

01:41:13,990 --> 01:41:11,040

now is in very many of the

2339

01:41:17,030 --> 01:41:14,000

better circles it's just not done in

2340

01:41:20,149 --> 01:41:17,040

polite society well i reject that

2341

01:41:21,910 --> 01:41:20,159

after many years of looking at this both

2342

01:41:24,709 --> 01:41:21,920

in the principle and then

2343

01:41:26,470 --> 01:41:24,719

even more so uh with wolfgang smith in

2344

01:41:29,750 --> 01:41:26,480

the new film

2345

01:41:33,669 --> 01:41:29,760

i consider it to be much more than

2346

01:41:35,590 --> 01:41:33,679

merely possible that what we are really

2347

01:41:39,109 --> 01:41:35,600

seeing

2348

01:41:42,229 --> 01:41:39,119

in the cutting edge

2349

01:41:44,149 --> 01:41:42,239

developments of both cosmology and the

2350

01:41:47,669 --> 01:41:44,159

particle physics

2351
01:41:51,590 --> 01:41:47,679
is a clear sign that we have reached

2352
01:41:54,790 --> 01:41:51,600
a dead end that the enlightenment

2353
01:41:56,229 --> 01:41:54,800
scientific research program has reached

2354
01:42:00,310 --> 01:41:56,239
its reductio

2355
01:42:03,590 --> 01:42:00,320
ad absurdum that in order to maintain

2356
01:42:06,550 --> 01:42:03,600
their theories now we must

2357
01:42:08,030 --> 01:42:06,560
postulate wave our hands and bring into

2358
01:42:10,790 --> 01:42:08,040
existence

2359
01:42:11,669 --> 01:42:10,800
95.9 of the mass energy budget of the

2360
01:42:15,430 --> 01:42:11,679
universe

2361
01:42:18,229 --> 01:42:15,440
we must postulate a world that splits

2362
01:42:20,470 --> 01:42:18,239
off into as many copies of itself

2363
01:42:21,910 --> 01:42:20,480

as there were possible values to a

2364

01:42:24,950 --> 01:42:21,920

quantum measurement

2365

01:42:27,590 --> 01:42:24,960

trillions upon octillions upon

2366

01:42:30,709 --> 01:42:27,600

googleplex millions of worlds every

2367

01:42:33,350 --> 01:42:30,719

time we blink our eyes

2368

01:42:34,709 --> 01:42:33,360

i hope you will forgive me if i am less

2369

01:42:37,830 --> 01:42:34,719

than persuaded

2370

01:42:40,709 --> 01:42:37,840

by these appeals how is syria

2371

01:42:42,709 --> 01:42:40,719

yes and and this is the point that i

2372

01:42:43,430 --> 01:42:42,719

keep trying to drive home not only with

2373

01:42:46,709 --> 01:42:43,440

myself

2374

01:42:50,229 --> 01:42:46,719

but with our audience who is very smart

2375

01:42:54,070 --> 01:42:50,239

is that the very smugness

2376

01:42:57,750 --> 01:42:54,080

that we get when these types of

2377

01:43:01,109 --> 01:42:57,760

questions are raised i find offensive

2378

01:43:04,709 --> 01:43:01,119

but yet they are indicative of a great

2379

01:43:06,950 --> 01:43:04,719

deal of circle the wagons from telling

2380

01:43:09,669 --> 01:43:06,960

you i've seen it before

2381

01:43:09,990 --> 01:43:09,679

when you look at the galileo trial when

2382

01:43:16,550 --> 01:43:10,000

you look

2383

01:43:18,709 --> 01:43:16,560

general attitude that was taken in the

2384

01:43:21,830 --> 01:43:18,719

face of these things

2385

01:43:25,350 --> 01:43:21,840

you you sense that at a certain point

2386

01:43:26,709 --> 01:43:25,360

power naturally begins to circle the

2387

01:43:30,310 --> 01:43:26,719

wagons

2388

01:43:33,990 --> 01:43:30,320

and rather than maintain a commitment to

2389

01:43:36,629 --> 01:43:34,000

truth and search for it they maintain

2390

01:43:37,750 --> 01:43:36,639

a commitment to the protection and

2391

01:43:41,350 --> 01:43:37,760

perpetuation

2392

01:43:42,149 --> 01:43:41,360

of a status quo that keeps the rice

2393

01:43:45,510 --> 01:43:42,159

bowls

2394

01:43:48,070 --> 01:43:45,520

filled and i'm sorry to say uh

2395

01:43:48,629 --> 01:43:48,080

i'm not all that surprised but i think

2396

01:43:52,070 --> 01:43:48,639

we are

2397

01:43:55,990 --> 01:43:52,080

well into the circle the wagons phase

2398

01:43:59,189 --> 01:43:56,000

in terms of the world story that has uh

2399

01:44:02,790 --> 01:43:59,199

sort of become the de facto

2400

01:44:03,990 --> 01:44:02,800

uh belief of of of the vast majority of

2401
01:44:05,990 --> 01:44:04,000
humanity

2402
01:44:07,109 --> 01:44:06,000
their theories are failing their their

2403
01:44:09,910 --> 01:44:07,119
theories are

2404
01:44:11,590 --> 01:44:09,920
regularly now being patched up

2405
01:44:13,109 --> 01:44:11,600
frantically

2406
01:44:15,830 --> 01:44:13,119
almost every time there's a new

2407
01:44:19,189 --> 01:44:15,840
observation now there's a new theory

2408
01:44:22,470 --> 01:44:19,199
um you mentioned in 1998 when the

2409
01:44:26,390 --> 01:44:22,480
the nobel prize was given uh

2410
01:44:28,629 --> 01:44:26,400
to um martin reece uh

2411
01:44:29,830 --> 01:44:28,639
at cambridge and his associates for

2412
01:44:33,629 --> 01:44:29,840
discovering

2413
01:44:37,510 --> 01:44:33,639

what was at the time termed the

2414

01:44:40,390 --> 01:44:37,520

accelerating expansion of the universe

2415

01:44:41,189 --> 01:44:40,400

well this is running into just

2416

01:44:44,709 --> 01:44:41,199

absolutely

2417

01:44:46,310 --> 01:44:44,719

drastic problems now what you're talking

2418

01:44:47,590 --> 01:44:46,320

about when you talk about the expansion

2419

01:44:48,149 --> 01:44:47,600

of the universe is something called the

2420

01:44:52,390 --> 01:44:48,159

hubble

2421

01:44:56,070 --> 01:44:52,400

constant and this is a number

2422

01:44:59,830 --> 01:44:56,080

that allows us to calculate

2423

01:45:03,350 --> 01:44:59,840

the rate of expansion of the universe

2424

01:45:06,790 --> 01:45:03,360

and what reason his fellow uh thinkers

2425

01:45:08,390 --> 01:45:06,800

did was they measured the what they call

2426
01:45:11,270 --> 01:45:08,400
the standard candles

2427
01:45:12,550 --> 01:45:11,280
the type one supernova the type 1a

2428
01:45:14,830 --> 01:45:12,560
supernova

2429
01:45:15,990 --> 01:45:14,840
and they determined from these

2430
01:45:18,950 --> 01:45:16,000
observations

2431
01:45:20,550 --> 01:45:18,960
that not only was the universe expanding

2432
01:45:22,229 --> 01:45:20,560
which had been accepted back when hubble

2433
01:45:25,669 --> 01:45:22,239
and einstein sat down

2434
01:45:28,870 --> 01:45:25,679
up on top of mount wilson but

2435
01:45:31,030 --> 01:45:28,880
completely shockingly it's

2436
01:45:32,310 --> 01:45:31,040
it's accelerating in its expansion

2437
01:45:36,310 --> 01:45:32,320
that's a real problem

2438
01:45:39,510 --> 01:45:36,320

you see gravity should be slowing down

2439

01:45:40,629 --> 01:45:39,520

that expansion there is no force that we

2440

01:45:44,390 --> 01:45:40,639

can even

2441

01:45:46,149 --> 01:45:44,400

suspect it would cause it to speed up

2442

01:45:48,149 --> 01:45:46,159

there this would be by far the most

2443

01:45:48,790 --> 01:45:48,159

powerful force in the universe and we

2444

01:45:51,990 --> 01:45:48,800

have never

2445

01:45:53,189 --> 01:45:52,000

been able to detect it at all we can

2446

01:45:56,390 --> 01:45:53,199

only infer

2447

01:45:58,149 --> 01:45:56,400

it from the fact that these observations

2448

01:46:01,189 --> 01:45:58,159

of the standard candles

2449

01:46:02,070 --> 01:46:01,199

seemed to imply an accelerating

2450

01:46:04,470 --> 01:46:02,080

expansion

2451

01:46:06,629 --> 01:46:04,480

well ever since that observation was

2452

01:46:07,750 --> 01:46:06,639

made more and more problems were started

2453

01:46:10,790 --> 01:46:07,760

prop up

2454

01:46:12,709 --> 01:46:10,800

there are two different schools that

2455

01:46:14,390 --> 01:46:12,719

measure this humble constant based on

2456

01:46:17,030 --> 01:46:14,400

two different methods

2457

01:46:18,149 --> 01:46:17,040

their answers are drastically at odds

2458

01:46:21,030 --> 01:46:18,159

with one another

2459

01:46:23,109 --> 01:46:21,040

they are both absolutely rigorous

2460

01:46:24,149 --> 01:46:23,119

perfectly scientifically valid in their

2461

01:46:27,189 --> 01:46:24,159

approaches

2462

01:46:28,870 --> 01:46:27,199

and they yield absolutely contradictory

2463

01:46:32,310 --> 01:46:28,880

values for the hubble constant

2464

01:46:34,310 --> 01:46:32,320

this is such a big deal that if you get

2465

01:46:36,229 --> 01:46:34,320

these guys to loosen their ties a little

2466

01:46:39,669 --> 01:46:36,239

bit they will tell you

2467

01:46:41,510 --> 01:46:39,679

we really do not have a standard model

2468

01:46:45,430 --> 01:46:41,520

of cosmology anymore

2469

01:46:47,750 --> 01:46:45,440

the data simply do not fit

2470

01:46:49,270 --> 01:46:47,760

the story that we have told now this is

2471

01:46:51,750 --> 01:46:49,280

a big problem

2472

01:46:54,470 --> 01:46:51,760

because when you have science elevated

2473

01:46:55,750 --> 01:46:54,480

to the level of authority and prestige

2474

01:46:58,950 --> 01:46:55,760

which it has

2475

01:47:02,470 --> 01:46:58,960

arguably very validly obtained

2476

01:47:04,470 --> 01:47:02,480

it doesn't do at all to let

2477

01:47:06,870 --> 01:47:04,480

the average person out there in the

2478

01:47:07,990 --> 01:47:06,880

street start to suspect that the whole

2479

01:47:11,189 --> 01:47:08,000

darned edifice

2480

01:47:12,629 --> 01:47:11,199

has begun to collapse nevertheless jimmy

2481

01:47:14,950 --> 01:47:12,639

i can tell you

2482

01:47:16,390 --> 01:47:14,960

the whole darned edifice has begun to

2483

01:47:20,830 --> 01:47:16,400

collapse

2484

01:47:25,030 --> 01:47:20,840

this is requiring of us at this point

2485

01:47:28,709 --> 01:47:25,040

a tremendous growth

2486

01:47:31,430 --> 01:47:28,719

in our ability to separate

2487

01:47:33,189 --> 01:47:31,440

out what is actually scientifically

2488

01:47:35,590 --> 01:47:33,199

provable

2489

01:47:37,590 --> 01:47:35,600

from that which is simply wrapped up in

2490

01:47:39,830 --> 01:47:37,600

the label of science

2491

01:47:40,950 --> 01:47:39,840

and put on the store shelves next to

2492

01:47:43,030 --> 01:47:40,960

science

2493

01:47:45,510 --> 01:47:43,040

but which is nothing other than

2494

01:47:48,310 --> 01:47:45,520

metaphysical speculation

2495

01:47:50,629 --> 01:47:48,320

and i can tell you for sure the vast

2496

01:47:51,750 --> 01:47:50,639

majority of the world story we tell

2497

01:47:54,950 --> 01:47:51,760

ourselves

2498

01:47:56,470 --> 01:47:54,960

is not science it is metaphysical

2499

01:47:59,910 --> 01:47:56,480

speculation

2500

01:48:02,390 --> 01:47:59,920

based upon the assumption that our

2501

01:48:04,709 --> 01:48:02,400

fundamental theories are correct

2502

01:48:06,629 --> 01:48:04,719

even though our observations are

2503

01:48:07,270 --> 01:48:06,639

continually throwing that into the

2504

01:48:10,950 --> 01:48:07,280

gravest

2505

01:48:13,430 --> 01:48:10,960

doubt and and i think the the point

2506

01:48:15,270 --> 01:48:13,440

that everybody should understand and

2507

01:48:16,709 --> 01:48:15,280

we've gotten away from it rick and i

2508

01:48:20,070 --> 01:48:16,719

don't know why

2509

01:48:22,870 --> 01:48:20,080

but you you bring it up that science

2510

01:48:23,669 --> 01:48:22,880

is nothing more than a series of

2511

01:48:26,790 --> 01:48:23,679

corrections

2512

01:48:30,070 --> 01:48:26,800

that's all it is right right copernicus

2513

01:48:33,030 --> 01:48:30,080

galileo bruno einstein

2514

01:48:33,750 --> 01:48:33,040

einstein's been corrected many times

2515

01:48:35,510 --> 01:48:33,760

newton

2516

01:48:39,030 --> 01:48:35,520

you know this is the most important

2517

01:48:41,990 --> 01:48:39,040

point jimmy i'm so glad you said this

2518

01:48:43,189 --> 01:48:42,000

there is something very special

2519

01:48:46,070 --> 01:48:43,199

beautiful and

2520

01:48:46,629 --> 01:48:46,080

powerful about the scientific method

2521

01:48:50,149 --> 01:48:46,639

that is

2522

01:48:50,709 --> 01:48:50,159

absolutely unique to the scientific

2523

01:48:53,030 --> 01:48:50,719

method

2524

01:48:54,149 --> 01:48:53,040

it's why science has had such a

2525

01:48:57,430 --> 01:48:54,159

magnificent

2526

01:49:00,390 --> 01:48:57,440

run over the last three centuries

2527

01:49:01,669 --> 01:49:00,400

science is self-correcting at least it's

2528

01:49:04,870 --> 01:49:01,679

supposed to be

2529

01:49:08,550 --> 01:49:04,880

how is it self-correcting in exactly

2530

01:49:10,310 --> 01:49:08,560

this way jimmy if you publish a paper

2531

01:49:13,430 --> 01:49:10,320

tomorrow

2532

01:49:17,350 --> 01:49:13,440

that makes a profound

2533

01:49:18,149 --> 01:49:17,360

new hypothesis about how we can resolve

2534

01:49:30,550 --> 01:49:18,159

the

2535

01:49:32,950 --> 01:49:30,560

to experimental cast

2536

01:49:33,830 --> 01:49:32,960

it doesn't matter how beautiful the math

2537

01:49:36,070 --> 01:49:33,840

is

2538

01:49:37,510 --> 01:49:36,080

it doesn't matter how many phds have

2539

01:49:39,510 --> 01:49:37,520

praised it

2540

01:49:40,790 --> 01:49:39,520

doesn't matter how many votes it gets in

2541

01:49:42,390 --> 01:49:40,800

an internet poll

2542

01:49:44,310 --> 01:49:42,400

it doesn't matter how many copies it

2543

01:49:45,270 --> 01:49:44,320

sold on the new york times bestseller

2544

01:49:48,390 --> 01:49:45,280

list

2545

01:49:51,589 --> 01:49:48,400

none of that matters

2546

01:49:53,870 --> 01:49:51,599

at all what matters

2547

01:49:55,109 --> 01:49:53,880

is what happened when you tested it

2548

01:49:58,229 --> 01:49:55,119

experimentally

2549

01:49:59,750 --> 01:49:58,239

that's the only vote that counts or that

2550

01:50:02,790 --> 01:49:59,760

is supposed to count

2551

01:50:05,750 --> 01:50:02,800

in science as long as science

2552

01:50:06,550 --> 01:50:05,760

allowed itself to be guided by that

2553

01:50:09,589 --> 01:50:06,560

beautiful

2554

01:50:11,669 --> 01:50:09,599

and terrible principle

2555

01:50:13,030 --> 01:50:11,679

imagine all the beautiful ideas that

2556

01:50:16,070 --> 01:50:13,040

died along the way

2557

01:50:16,629 --> 01:50:16,080

that's right that's right and and and

2558

01:50:21,030 --> 01:50:16,639

today

2559

01:50:23,510 --> 01:50:21,040

and i hear it over and over again when

2560

01:50:25,109 --> 01:50:23,520

uh how many times have we heard about

2561

01:50:26,229 --> 01:50:25,119

multi-world's parallel worlds the

2562

01:50:27,990 --> 01:50:26,239

multiverse

2563

01:50:30,070 --> 01:50:28,000

right how am i supposed to test that

2564

01:50:31,830 --> 01:50:30,080

right

2565

01:50:33,669 --> 01:50:31,840

and then and they say well you know

2566

01:50:36,790 --> 01:50:33,679

measurement is the issue uh

2567

01:50:42,870 --> 01:50:36,800

well uh okay wait a minute here you want

2568

01:50:46,709 --> 01:50:45,910

when science departs now i want to

2569

01:50:53,430 --> 01:50:46,719

believe

2570

01:50:53,990 --> 01:50:53,440

i have faith these guys have a very good

2571

01:50:56,070 --> 01:50:54,000

argument

2572

01:50:57,589 --> 01:50:56,080

how can you test this you can't you have

2573

01:51:00,310 --> 01:50:57,599

to trust the mathematics

2574

01:51:02,550 --> 01:51:00,320

right right the mathematics is giving us

2575

01:51:03,669 --> 01:51:02,560

the answer and even if we can't test it

2576

01:51:06,390 --> 01:51:03,679

experimentally

2577

01:51:08,550 --> 01:51:06,400

the math has been so good for so long

2578

01:51:09,350 --> 01:51:08,560

and look at how beautiful this equation

2579

01:51:12,550 --> 01:51:09,360

is

2580

01:51:15,189 --> 01:51:12,560

it's too good not to be true

2581

01:51:16,390 --> 01:51:15,199

and i'm telling you this is the end of

2582

01:51:18,709 --> 01:51:16,400

the line

2583

01:51:19,430 --> 01:51:18,719

for the authentic scientific method i

2584

01:51:22,470 --> 01:51:19,440

don't care

2585

01:51:25,750 --> 01:51:22,480

how good your justification is if you

2586

01:51:28,870 --> 01:51:25,760

propose as a solution to an

2587

01:51:32,709 --> 01:51:28,880

observed problem something which

2588

01:51:34,629 --> 01:51:32,719

cannot even in principle be subjected to

2589

01:51:38,390 --> 01:51:34,639

a crucial experimental test

2590

01:51:40,629 --> 01:51:38,400

you are no longer doing science

2591

01:51:43,350 --> 01:51:40,639

stop calling it science call it

2592

01:51:45,510 --> 01:51:43,360

scientifically based metaphysics

2593

01:51:47,750 --> 01:51:45,520

but stop wrapping it up in the label

2594

01:51:50,550 --> 01:51:47,760

science and putting it up on the shelf

2595

01:51:53,589 --> 01:51:50,560

next to newton's gravitational laws

2596

01:51:58,629 --> 01:51:53,599

they are not the same thing

2597

01:52:03,830 --> 01:51:58,639

and this is the big issue here

2598

01:52:07,910 --> 01:52:03,840

science authentic science real science

2599

01:52:09,830 --> 01:52:07,920

has gone far beyond

2600

01:52:11,510 --> 01:52:09,840

experimental crucial tests for a long

2601
01:52:13,910 --> 01:52:11,520
time now

2602
01:52:15,589 --> 01:52:13,920
you hear about uh string theory for

2603
01:52:16,950 --> 01:52:15,599
example i was going to bring that up

2604
01:52:19,030 --> 01:52:16,960
yeah okay well done

2605
01:52:21,350 --> 01:52:19,040
well done i'm not a mathematician

2606
01:52:23,510 --> 01:52:21,360
wolfgang is a doctor of mathematics

2607
01:52:24,550 --> 01:52:23,520
and i don't understand the first bloody

2608
01:52:26,950 --> 01:52:24,560
thing

2609
01:52:29,030 --> 01:52:26,960
about these equations of string theory i

2610
01:52:31,830 --> 01:52:29,040
am told by people who do

2611
01:52:33,109 --> 01:52:31,840
that they are almost astonishing in

2612
01:52:36,070 --> 01:52:33,119
their beauty

2613
01:52:36,790 --> 01:52:36,080

that these equations are so profoundly

2614

01:52:40,310 --> 01:52:36,800

beautiful

2615

01:52:42,950 --> 01:52:40,320

elegant and employ the same

2616

01:52:44,070 --> 01:52:42,960

types of insights that have given us so

2617

01:52:47,109 --> 01:52:44,080

many breakthroughs

2618

01:52:50,709 --> 01:52:47,119

in the past that ultimately

2619

01:52:53,990 --> 01:52:50,719

the argument is this is too good

2620

01:52:57,189 --> 01:52:54,000

not to be true it has to be true

2621

01:53:00,390 --> 01:52:57,199

because there's no other way

2622

01:53:03,109 --> 01:53:00,400

there's no competing approach

2623

01:53:04,070 --> 01:53:03,119

that could yield such elegance such

2624

01:53:07,589 --> 01:53:04,080

symmetry

2625

01:53:10,470 --> 01:53:07,599

such power in our mathematics

2626
01:53:12,310 --> 01:53:10,480
and you know what wolfgang told me a

2627
01:53:15,430 --> 01:53:12,320
long time ago he said that

2628
01:53:18,790 --> 01:53:15,440
is death the minute that you

2629
01:53:20,790 --> 01:53:18,800
say that your equation is so good

2630
01:53:22,870 --> 01:53:20,800
that it doesn't have to pass

2631
01:53:25,189 --> 01:53:22,880
experimental test

2632
01:53:26,870 --> 01:53:25,199
you have departed from the authentic

2633
01:53:30,870 --> 01:53:26,880
scientific method

2634
01:53:33,910 --> 01:53:30,880
you are now engaged in constructing

2635
01:53:36,870 --> 01:53:33,920
a metaphysical story

2636
01:53:39,189 --> 01:53:36,880
you are not engaged in constructing a

2637
01:53:41,189 --> 01:53:39,199
testable scientific theory

2638
01:53:42,870 --> 01:53:41,199

and of course with the multiverse that's

2639

01:53:45,030 --> 01:53:42,880

exactly what we have

2640

01:53:47,189 --> 01:53:45,040

why do they believe in the multiverse

2641

01:53:49,910 --> 01:53:47,199

because it's the only way

2642

01:53:52,229 --> 01:53:49,920

that they can even approximately account

2643

01:53:53,270 --> 01:53:52,239

for the one universe we do observe

2644

01:53:54,790 --> 01:53:53,280

that's right there have to be an

2645

01:53:56,790 --> 01:53:54,800

infinity of other ones because this

2646

01:53:59,830 --> 01:53:56,800

one's too unlikely

2647

01:54:03,350 --> 01:53:59,840

this one is just too finely tuned

2648

01:54:05,830 --> 01:54:03,360

this one is just too precise and perfect

2649

01:54:09,189 --> 01:54:05,840

to have been anything other than the one

2650

01:54:11,910 --> 01:54:09,199

lucky lottery ticket in a whole

2651
01:54:12,790 --> 01:54:11,920
quintillion of other unlucky lottery

2652
01:54:15,910 --> 01:54:12,800
tickets

2653
01:54:19,270 --> 01:54:15,920
well what evidence do we have of that

2654
01:54:21,990 --> 01:54:19,280
none right what so ever

2655
01:54:22,950 --> 01:54:22,000
well what evidence could there ever be

2656
01:54:26,149 --> 01:54:22,960
of that

2657
01:54:27,350 --> 01:54:26,159
none whatsoever how can you experiment

2658
01:54:29,750 --> 01:54:27,360
upon a universe

2659
01:54:32,790 --> 01:54:29,760
that is causally disconnected from this

2660
01:54:36,470 --> 01:54:32,800
one what observation can you possibly

2661
01:54:39,189 --> 01:54:36,480
do you can't do one even in principle

2662
01:54:40,229 --> 01:54:39,199
so we are now engaged at the moment of

2663
01:54:42,709 --> 01:54:40,239

truth

2664

01:54:43,350 --> 01:54:42,719

where either we sail through the looking

2665

01:54:45,109 --> 01:54:43,360

gas

2666

01:54:47,669 --> 01:54:45,119

into the never-never land of the

2667

01:54:51,270 --> 01:54:47,679

multiverse and many worlds

2668

01:54:56,149 --> 01:54:51,280

or we stop and we say

2669

01:55:00,070 --> 01:54:58,550

then there has to be a mistake somewhere

2670

01:55:03,189 --> 01:55:00,080

back along the line

2671

01:55:03,589 --> 01:55:03,199

we have to have made a mistake because

2672

01:55:06,070 --> 01:55:03,599

by

2673

01:55:07,750 --> 01:55:06,080

following the theories that we thought

2674

01:55:10,870 --> 01:55:07,760

were true

2675

01:55:14,390 --> 01:55:10,880

we have arrived at a reductio

2676
01:55:17,430 --> 01:55:14,400
ad absurdum that can never be tested

2677
01:55:20,709 --> 01:55:17,440
we literally are reduced in a very real

2678
01:55:21,910 --> 01:55:20,719
sense to arguing for the next few

2679
01:55:24,229 --> 01:55:21,920
hundred years

2680
01:55:24,950 --> 01:55:24,239
how many angels can dance on the head of

2681
01:55:26,550 --> 01:55:24,960
the pin

2682
01:55:28,709 --> 01:55:26,560
except this time it's how many

2683
01:55:29,589 --> 01:55:28,719
multiverses does our math tell us there

2684
01:55:31,589 --> 01:55:29,599
must be

2685
01:55:32,870 --> 01:55:31,599
even though we can never observe or test

2686
01:55:35,669 --> 01:55:32,880
any single one of them

2687
01:55:36,550 --> 01:55:35,679
it's a profound moment in history there

2688
01:55:38,070 --> 01:55:36,560

is um

2689

01:55:39,910 --> 01:55:38,080

uh we've got about five minutes i'm

2690

01:55:41,030 --> 01:55:39,920

going to stay on string theory for just

2691

01:55:43,350 --> 01:55:41,040

a second

2692

01:55:45,270 --> 01:55:43,360

because i keep going back to faith right

2693

01:55:48,070 --> 01:55:45,280

i'm not talking about religion

2694

01:55:48,629 --> 01:55:48,080

but physicists are asking us to have

2695

01:55:50,629 --> 01:55:48,639

faith

2696

01:55:52,229 --> 01:55:50,639

in what they are saying and when it

2697

01:55:55,030 --> 01:55:52,239

comes to it's their best argument

2698

01:55:55,589 --> 01:55:55,040

yeah that's right and so with with with

2699

01:55:57,990 --> 01:55:55,599

brian

2700

01:55:59,030 --> 01:55:58,000

greene leading the charge on string

2701
01:56:01,109 --> 01:55:59,040
theory

2702
01:56:03,109 --> 01:56:01,119
this is where the faith for me pushes a

2703
01:56:06,149 --> 01:56:03,119
bit too far in that

2704
01:56:08,390 --> 01:56:06,159
uh the closer you go down and and this

2705
01:56:10,390 --> 01:56:08,400
the vibrating strings are the basis of

2706
01:56:11,589 --> 01:56:10,400
everything and inside of that once we go

2707
01:56:15,350 --> 01:56:11,599
a little bit further

2708
01:56:17,830 --> 01:56:15,360
we have found 11 uh parallel

2709
01:56:19,750 --> 01:56:17,840
uh dimensions that are there now we we

2710
01:56:20,149 --> 01:56:19,760
know about space and time we know up and

2711
01:56:22,149 --> 01:56:20,159
down

2712
01:56:23,830 --> 01:56:22,159
and depth and you know three and then

2713
01:56:27,510 --> 01:56:23,840

four space time

2714

01:56:29,189 --> 01:56:27,520

okay but we need to extend that and

2715

01:56:30,629 --> 01:56:29,199

and i have to stop and go well wait a

2716

01:56:32,790 --> 01:56:30,639

minute how

2717

01:56:34,229 --> 01:56:32,800

how big are these dimensions and what

2718

01:56:36,149 --> 01:56:34,239

exists there

2719

01:56:37,510 --> 01:56:36,159

and and well you know you have to

2720

01:56:40,709 --> 01:56:37,520

understand that they're very

2721

01:56:43,589 --> 01:56:40,719

narrow but the math says that they

2722

01:56:44,470 --> 01:56:43,599

are there the math says that's that's

2723

01:56:47,189 --> 01:56:44,480

the key right there

2724

01:56:49,270 --> 01:56:47,199

that's it i appreciate i i appreciate

2725

01:56:49,750 --> 01:56:49,280

you know when i when i listen to brian

2726
01:56:53,669 --> 01:56:49,760
and to

2727
01:56:57,350 --> 01:56:53,679
uh to others there's almost a poignant

2728
01:56:59,830 --> 01:56:57,360
tone it has to be right

2729
01:57:00,950 --> 01:56:59,840
because otherwise the whole edifice is

2730
01:57:02,629 --> 01:57:00,960
going to collapse

2731
01:57:04,310 --> 01:57:02,639
and you're right about that you know

2732
01:57:06,070 --> 01:57:04,320
yeah absolutely right and i'm not

2733
01:57:08,070 --> 01:57:06,080
slamming on brian

2734
01:57:09,990 --> 01:57:08,080
i'm not the problem is this jimmy here's

2735
01:57:13,750 --> 01:57:10,000
the problem

2736
01:57:17,750 --> 01:57:13,760
if your math requires me

2737
01:57:20,790 --> 01:57:17,760
to believe that something exists

2738
01:57:21,990 --> 01:57:20,800

despite the fact that there is not the

2739

01:57:26,149 --> 01:57:22,000

slightest

2740

01:57:28,470 --> 01:57:26,159

actual evidence no for it

2741

01:57:31,750 --> 01:57:28,480

apart from the fact that your math

2742

01:57:35,669 --> 01:57:31,760

requires it to be there

2743

01:57:38,709 --> 01:57:35,679

you are no longer proposing science

2744

01:57:42,790 --> 01:57:38,719

to me you are proposing a

2745

01:57:44,790 --> 01:57:42,800

metaphysical mathematical story

2746

01:57:47,669 --> 01:57:44,800

all of these extra dimensions are just

2747

01:57:51,270 --> 01:57:47,679

exactly like dark matter and dark energy

2748

01:57:54,470 --> 01:57:51,280

we talk about them as if they exist

2749

01:57:59,430 --> 01:57:54,480

they do not exist anywhere so far

2750

01:58:02,790 --> 01:58:01,510

that's right to make the math come out

2751

01:58:04,709 --> 01:58:02,800

right that's right

2752

01:58:05,990 --> 01:58:04,719

what if the theory is wrong and we're

2753

01:58:09,030 --> 01:58:06,000

just adding in

2754

01:58:13,270 --> 01:58:09,040

all of these dimensions and matter

2755

01:58:16,070 --> 01:58:13,280

and energy to save the appearances

2756

01:58:17,990 --> 01:58:16,080

of the theory you can do that forever

2757

01:58:18,790 --> 01:58:18,000

you can always have more angels dance on

2758

01:58:22,470 --> 01:58:18,800

the head of the pin

2759

01:58:25,750 --> 01:58:22,480

there's no limit the problem is

2760

01:58:28,830 --> 01:58:25,760

you are now departing the

2761

01:58:30,310 --> 01:58:28,840

key of true science which is

2762

01:58:34,310 --> 01:58:30,320

experimental

2763

01:58:38,470 --> 01:58:34,320

test and possible falsification

2764

01:58:44,550 --> 01:58:42,070

yeah when we uh i can i can deal with

2765

01:58:47,109 --> 01:58:44,560

photons i can deal with protons right

2766

01:58:48,790 --> 01:58:47,119

i can deal with quarks i can deal with

2767

01:58:51,270 --> 01:58:48,800

strong and weak gravity

2768

01:58:53,270 --> 01:58:51,280

i can deal with all of these things but

2769

01:58:55,750 --> 01:58:53,280

when we get into

2770

01:58:56,709 --> 01:58:55,760

vibrating strings and an extra seven

2771

01:58:59,910 --> 01:58:56,719

dimensions

2772

01:59:03,430 --> 01:58:59,920

that we can't see or measure they are

2773

01:59:06,470 --> 01:59:03,440

only in the math to make the math work

2774

01:59:09,510 --> 01:59:06,480

that's where it's a leap of faith

2775

01:59:13,350 --> 01:59:09,520

it is indeed a leap of faith and

2776

01:59:18,070 --> 01:59:13,360

i would go even further i would argue

2777

01:59:21,990 --> 01:59:18,080

that the leap of faith required

2778

01:59:25,510 --> 01:59:22,000

is all together too much

2779

01:59:27,589 --> 01:59:25,520

that despite all of the triumphs

2780

01:59:29,510 --> 01:59:27,599

of the enlightenment scientific

2781

01:59:32,709 --> 01:59:29,520

enterprise and they are magnificent

2782

01:59:36,629 --> 01:59:32,719

believe me they are none

2783

01:59:40,470 --> 01:59:36,639

of those triumphs compels us to accept

2784

01:59:42,470 --> 01:59:40,480

the slightest bit of what we are being

2785

01:59:45,750 --> 01:59:42,480

told about many worlds

2786

01:59:46,790 --> 01:59:45,760

and multiverses and dark matter and dark

2787

01:59:50,229 --> 01:59:46,800

energy

2788

01:59:54,229 --> 01:59:50,239

all of these things are in fact

2789

01:59:57,990 --> 01:59:54,239

patches ad hoc x post facto

2790

02:00:01,589 --> 01:59:58,000

patches added to the existing

2791

02:00:04,709 --> 02:00:01,599

theoretical structure to prevent

2792

02:00:07,109 --> 02:00:04,719

those structures from collapsing

2793

02:00:09,669 --> 02:00:07,119

in the case of contrary evidence that's

2794

02:00:11,270 --> 02:00:09,679

right it's temporary

2795

02:00:13,189 --> 02:00:11,280

yeah it's temporary let's take our break

2796

02:00:14,629 --> 02:00:13,199

right here what a great conversation

2797

02:00:16,790 --> 02:00:14,639

tonight

2798

02:00:18,470 --> 02:00:16,800

what a great conversation rick delano

2799

02:00:20,629 --> 02:00:18,480

we're talking about the new film

2800

02:00:21,910 --> 02:00:20,639

the end of quantum reality when we come

2801
02:00:25,350 --> 02:00:21,920
back the c

2802
02:00:27,430 --> 02:00:25,360
word consciousness we'll get to all of

2803
02:00:28,060 --> 02:00:27,440
that right after this short break stay

2804
02:00:32,470 --> 02:00:28,070
with us

2805
02:00:42,629 --> 02:00:40,149
hi everybody this is dot com

2806
02:00:43,669 --> 02:00:42,639
this is kgra digital broadcasting

2807
02:00:47,350 --> 02:00:43,679
station

2808
02:00:49,109 --> 02:00:47,360
salt lake city utah van buren arkansas

2809
02:00:51,270 --> 02:00:49,119
why is it we're not very good with our

2810
02:00:53,030 --> 02:00:51,280
health regiment until it's too late we

2811
02:00:54,870 --> 02:00:53,040
don't put oil in the car until the

2812
02:00:55,589 --> 02:00:54,880
engine blows up when the body's out of

2813
02:00:57,750 --> 02:00:55,599

balance

2814

02:00:58,870 --> 02:00:57,760

your health is not so good give your

2815

02:01:01,270 --> 02:00:58,880

body some love

2816

02:01:02,149 --> 02:01:01,280

log on to get the tea dot com that's get

2817

02:01:04,390 --> 02:01:02,159

the tea

2818

02:01:06,790 --> 02:01:04,400

dot com try our life change tea which

2819

02:01:09,030 --> 02:01:06,800

cleanses you from harmful intruders

2820

02:01:10,470 --> 02:01:09,040

a clean colon is one of the ways to

2821

02:01:12,470 --> 02:01:10,480

bring the body in balance

2822

02:01:13,589 --> 02:01:12,480

we also carry organic supplements to

2823

02:01:16,310 --> 02:01:13,599

help you get where

2824

02:01:19,870 --> 02:01:16,320

you need to go so do your body a favor

2825

02:01:21,109 --> 02:01:19,880

log on to get the tea.com that's get the

2826

02:01:23,350 --> 02:01:21,119

ttea.com

2827

02:01:24,629 --> 02:01:23,360

you can even visit our sales page to

2828

02:01:26,870 --> 02:01:24,639

save some dough

2829

02:01:28,550 --> 02:01:26,880

does anybody call money dough anymore

2830

02:01:29,830 --> 02:01:28,560

anyway if you're looking for short

2831

02:01:32,229 --> 02:01:29,840

helpful health tips

2832

02:01:33,589 --> 02:01:32,239

go to youtube and punch in health

2833

02:01:40,709 --> 02:01:33,599

matters now

2834

02:01:41,430 --> 02:01:40,719

log on to get the tea.com shop get

2835

02:01:43,669 --> 02:01:41,440

balanced

2836

02:01:44,790 --> 02:01:43,679

then learn some cool tips at health

2837

02:01:46,669 --> 02:01:44,800

matters now

2838

02:01:48,870 --> 02:01:46,679

you'll be glad you did that's get the

2839

02:01:50,870 --> 02:01:48,880

tea.com

2840

02:01:53,790 --> 02:01:50,880

your contact for current news and

2841

02:01:55,669 --> 02:01:53,800

trending topics

2842

02:01:57,510 --> 02:01:55,679

kgraradio.com

2843

02:01:58,709 --> 02:01:57,520

this is jimmy church of fade to black

2844

02:02:01,750 --> 02:01:58,719

and i only

2845

02:02:04,390 --> 02:02:01,760

drink fade to black blend coffee

2846

02:02:05,589 --> 02:02:04,400

from river moon just click on the river

2847

02:02:09,350 --> 02:02:05,599

moon coffee banner

2848

02:02:12,950 --> 02:02:09,360

at jimmychurchradio.com promo code f2b

2849

02:02:16,149 --> 02:02:12,960

blend let's face it you've always wanted

2850

02:02:19,830 --> 02:02:16,159

to do a sky watch and see your first ufo

2851
02:02:22,629 --> 02:02:19,840
today it's easy just get your own hp7

2852
02:02:23,510 --> 02:02:22,639
3b cobalt jimmy church edition night

2853
02:02:26,070 --> 02:02:23,520
vision goggles

2854
02:02:28,550 --> 02:02:26,080
from hoffman's optics this is the same

2855
02:02:30,149 --> 02:02:28,560
us military system that i use featuring

2856
02:02:33,109 --> 02:02:30,159
a generation 3 blue

2857
02:02:33,669 --> 02:02:33,119
phosphor image tube that's right it's

2858
02:02:36,550 --> 02:02:33,679
blue

2859
02:02:37,990 --> 02:02:36,560
not black and green this is the only

2860
02:02:40,390 --> 02:02:38,000
blue system in the world

2861
02:02:43,189 --> 02:02:40,400
and it's waterproof lightweight combat

2862
02:02:45,589 --> 02:02:43,199
proven simple to use and ready to go

2863
02:02:47,030 --> 02:02:45,599

hoffman's optics help create night

2864

02:02:48,950 --> 02:02:47,040

vision sky watches

2865

02:02:50,870 --> 02:02:48,960

and now you can see what everyone has

2866

02:02:51,990 --> 02:02:50,880

been talking about each night from your

2867

02:02:55,430 --> 02:02:52,000

own backyard

2868

02:02:59,350 --> 02:02:55,440

just call 760-231-9929

2869

02:03:03,470 --> 02:03:00,790

you can 760-231-9929 on the banners on

2870

02:03:04,709 --> 02:03:03,480

our site or visit

2871

02:03:13,990 --> 02:03:04,719

ufonightvisiongoggles.com

2872

02:03:19,310 --> 02:03:14,000

go back lee tappy this is the only way

2873

02:03:25,750 --> 02:03:19,320

this is paid to black make contact

2874

02:03:28,950 --> 02:03:27,589

when you're in the house for longer

2875

02:03:31,189 --> 02:03:28,960

periods of time

2876

02:03:33,030 --> 02:03:31,199

you can see them flying or running

2877

02:03:36,709 --> 02:03:33,040

across the floor

2878

02:03:38,070 --> 02:03:36,719

ooh yuck they're unhealthy gross and

2879

02:03:42,310 --> 02:03:38,080

disgusting

2880

02:03:45,430 --> 02:03:42,320

bugs i loathe bugs we keep a clean home

2881

02:03:46,790 --> 02:03:45,440

but occasionally bugs show up well i

2882

02:03:49,750 --> 02:03:46,800

found something that is

2883

02:03:50,629 --> 02:03:49,760

tougher than bugs orange guard on

2884

02:03:53,830 --> 02:03:50,639

contact

2885

02:03:57,109 --> 02:03:53,840

it kills hidden bugs including ants

2886

02:03:59,830 --> 02:03:57,119

roaches and fleas plus orange guard

2887

02:04:01,910 --> 02:03:59,840

is a residual repellent all of the

2888

02:04:02,550 --> 02:04:01,920

ingredients of orange guard are on the

2889

02:04:05,669 --> 02:04:02,560

fda

2890

02:04:07,589 --> 02:04:05,679

generally recognized as safe list orange

2891

02:04:11,350 --> 02:04:07,599

guard may be used around food

2892

02:04:13,350 --> 02:04:11,360

humans and pets it comes with a 30-day

2893

02:04:15,950 --> 02:04:13,360

money-back guarantee

2894

02:04:17,430 --> 02:04:15,960

orange guard available at

2895

02:04:21,750 --> 02:04:17,440

orangeguard.com

2896

02:04:26,470 --> 02:04:24,310

telepath is a weekly digital newsletter

2897

02:04:28,870 --> 02:04:26,480

filled with the latest paranormal news

2898

02:04:30,229 --> 02:04:28,880

trending topics and fresh articles from

2899

02:04:32,709 --> 02:04:30,239

some of the most popular

2900

02:04:34,229 --> 02:04:32,719

critical thinkers in the community today

2901

02:04:36,790 --> 02:04:34,239

stay informed on your favorite

2902

02:04:37,669 --> 02:04:36,800

paranormal podcasts and live streaming

2903

02:04:39,589 --> 02:04:37,679

talk shows

2904

02:04:41,030 --> 02:04:39,599

interact with the telepath and upload

2905

02:04:43,030 --> 02:04:41,040

your paranormal story or

2906

02:04:44,229 --> 02:04:43,040

picks it could be featured in an

2907

02:04:46,790 --> 02:04:44,239

upcoming edition

2908

02:04:49,270 --> 02:04:46,800

sign up right now for the free telepath

2909

02:04:50,950 --> 02:04:49,280

newsletter at paranormal dot radio

2910

02:04:57,980 --> 02:04:50,960

that's paranormal dot

2911

02:05:03,990 --> 02:05:00,870

[Applause]

2912

02:05:07,830 --> 02:05:04,000

you wanna know a secret i love

2913

02:05:10,069 --> 02:05:07,840

police i really love ponies i'm serious

2914

02:05:11,430 --> 02:05:10,079

i couldn't stay sane without pawn mr

2915

02:05:14,629 --> 02:05:11,440

brush

2916

02:05:19,990 --> 02:05:14,639

why fade to black because you never got

2917

02:05:22,149 --> 02:05:20,000

that pony

2918

02:05:24,470 --> 02:05:22,159

this is fade to black with jimmy church

2919

02:05:40,550 --> 02:05:24,480

on the game changer radio network

2920

02:05:44,870 --> 02:05:42,709

welcome back fade to black i'm watching

2921

02:05:47,270 --> 02:05:44,880

twitter tonight

2922

02:05:48,950 --> 02:05:47,280

our guest rick delano we're talking

2923

02:05:51,350 --> 02:05:48,960

about his new film it's called the end

2924

02:05:52,390 --> 02:05:51,360

of quantum reality extraordinary piece

2925

02:05:55,430 --> 02:05:52,400

of work

2926

02:05:56,229 --> 02:05:55,440

and i just highly recommend it and you

2927

02:05:58,950 --> 02:05:56,239

know when i

2928

02:06:00,069 --> 02:05:58,960

say go that means go you've got to check

2929

02:06:03,350 --> 02:06:00,079

out the end of quantum

2930

02:06:06,229 --> 02:06:03,360

reality but also i'm watching in

2931

02:06:09,830 --> 02:06:06,239

twitter uh rick it's all your fault we

2932

02:06:13,270 --> 02:06:11,589

nothing but cat videos tonight

2933

02:06:16,390 --> 02:06:13,280

everybody's got their version of

2934

02:06:18,709 --> 02:06:16,400

schrodinger's cat now um uh

2935

02:06:20,069 --> 02:06:18,719

here's the deal the c word right

2936

02:06:23,990 --> 02:06:20,079

consciousness

2937

02:06:27,990 --> 02:06:24,000

um and one of i

2938

02:06:31,109 --> 02:06:28,000

i i do this and i do this often

2939

02:06:33,030 --> 02:06:31,119

when i am watching uh

2940

02:06:34,709 --> 02:06:33,040

one of the rock stars you know get

2941

02:06:36,069 --> 02:06:34,719

interviewed and

2942

02:06:37,510 --> 02:06:36,079

and they're doing a presentation

2943

02:06:39,430 --> 02:06:37,520

whatever and and the question of

2944

02:06:43,270 --> 02:06:39,440

consciousness comes up

2945

02:06:46,550 --> 02:06:43,280

uh they squirm they get negative um

2946

02:06:49,350 --> 02:06:46,560

and they don't have an

2947

02:06:51,189 --> 02:06:49,360

answer and this is the thing and this is

2948

02:06:54,470 --> 02:06:51,199

my opinion

2949

02:06:55,430 --> 02:06:54,480

but they want us to accept parallel

2950

02:06:57,910 --> 02:06:55,440

worlds and

2951
02:06:59,030 --> 02:06:57,920
the multiverse and entanglement and

2952
02:07:02,629 --> 02:06:59,040
schrodinger's cat

2953
02:07:05,109 --> 02:07:02,639
and and a time travel

2954
02:07:06,470 --> 02:07:05,119
right they want us to understand all of

2955
02:07:08,709 --> 02:07:06,480
this because of the

2956
02:07:09,990 --> 02:07:08,719
equations and the way they uh present

2957
02:07:12,470 --> 02:07:10,000
themselves

2958
02:07:13,430 --> 02:07:12,480
but the biggest question of all

2959
02:07:16,870 --> 02:07:13,440
consciousness

2960
02:07:19,350 --> 02:07:16,880
which gives them the ability to drone

2961
02:07:20,870 --> 02:07:19,360
on and on which i appreciate and i

2962
02:07:21,910 --> 02:07:20,880
appreciate the science and i love the

2963
02:07:25,589 --> 02:07:21,920

science

2964

02:07:28,950 --> 02:07:25,599

but you can't dismiss one and have us

2965

02:07:30,310 --> 02:07:28,960

accept the other science fiction and i

2966

02:07:33,350 --> 02:07:30,320

find that completely

2967

02:07:36,229 --> 02:07:33,360

offensive um thank goodness for

2968

02:07:37,350 --> 02:07:36,239

dr wolfgang smith right where he's

2969

02:07:40,870 --> 02:07:37,360

willing to take this

2970

02:07:43,510 --> 02:07:40,880

head on and and the two communities

2971

02:07:46,310 --> 02:07:43,520

the spiritual one and the science one

2972

02:07:49,910 --> 02:07:46,320

are on their way to a train wreck

2973

02:07:54,069 --> 02:07:49,920

they are going to hit head on eventually

2974

02:07:55,750 --> 02:07:54,079

and we need science to now focus on this

2975

02:07:57,270 --> 02:07:55,760

but you're right you're exactly right

2976

02:08:00,310 --> 02:07:57,280

the train wreck is well

2977

02:08:03,589 --> 02:08:00,320

underway the train wreck comes

2978

02:08:07,350 --> 02:08:03,599

when the world story

2979

02:08:10,870 --> 02:08:07,360

no longer commands

2980

02:08:14,229 --> 02:08:10,880

enough acceptance

2981

02:08:16,709 --> 02:08:14,239

to qualify as the unifying principle of

2982

02:08:21,750 --> 02:08:16,719

our view of reality and we are

2983

02:08:24,149 --> 02:08:21,760

just at the beginning of that stage

2984

02:08:26,870 --> 02:08:24,159

where the present world story is falling

2985

02:08:31,270 --> 02:08:26,880

apart it no longer stands up to

2986

02:08:33,589 --> 02:08:31,280

its own standards of credibility

2987

02:08:36,709 --> 02:08:33,599

now the reason that wolfgang smith

2988

02:08:39,669 --> 02:08:36,719

stands head and shoulders

2989

02:08:41,910 --> 02:08:39,679

above every one of the physicists that i

2990

02:08:45,910 --> 02:08:41,920

interviewed for the principal

2991

02:08:49,350 --> 02:08:45,920

and why i am absolutely persuaded that

2992

02:08:52,470 --> 02:08:49,360

100 or 200 years downstream here

2993

02:08:56,629 --> 02:08:52,480

everyone will know wolfgang smith's name

2994

02:09:00,149 --> 02:08:56,639

and no one will know max chegmark's name

2995

02:09:03,350 --> 02:09:00,159

it's because wolfgang smith

2996

02:09:07,589 --> 02:09:03,360

is the only guy i know in the world

2997

02:09:10,709 --> 02:09:07,599

who has world class credentials

2998

02:09:15,430 --> 02:09:10,719

in mathematics and physics

2999

02:09:19,910 --> 02:09:15,440

use them professionally for decades

3000

02:09:23,750 --> 02:09:19,920

and at the same time made contact

3001

02:09:26,470 --> 02:09:23,760

with this remarkable notion

3002

02:09:27,990 --> 02:09:26,480

that everyone who lived before newton

3003

02:09:32,069 --> 02:09:28,000

wasn't a complete

3004

02:09:35,910 --> 02:09:32,079

dummy that we have essentially

3005

02:09:37,589 --> 02:09:35,920

walked away from 5 000 years of human

3006

02:09:42,790 --> 02:09:37,599

wisdom

3007

02:09:47,270 --> 02:09:42,800

that was acquired at immense cost

3008

02:09:50,550 --> 02:09:47,280

by in geniuses millennia and centuries

3009

02:09:53,669 --> 02:09:50,560

before enlightenment science arose

3010

02:09:55,669 --> 02:09:53,679

in the world and wolfgang understood

3011

02:09:59,350 --> 02:09:55,679

very early in life that

3012

02:10:02,629 --> 02:09:59,360

science was not going to be able to

3013

02:10:07,189 --> 02:10:02,639

explain to us the totality

3014

02:10:11,109 --> 02:10:07,199

of this universe because science you see

3015

02:10:14,709 --> 02:10:11,119

is a magnificent tool for examining

3016

02:10:20,069 --> 02:10:14,719

that portion of the universe

3017

02:10:24,709 --> 02:10:20,079

that can be described quantitatively

3018

02:10:27,830 --> 02:10:24,719

science proceeds on the assumption

3019

02:10:29,510 --> 02:10:27,840

that the world ultimately reduces to

3020

02:10:32,149 --> 02:10:29,520

quantity

3021

02:10:33,350 --> 02:10:32,159

to that which can be expressed in a

3022

02:10:37,589 --> 02:10:33,360

mathematical

3023

02:10:39,750 --> 02:10:37,599

equation that is a gigantic assumption

3024

02:10:41,750 --> 02:10:39,760

it was quite useful to get science off

3025

02:10:44,149 --> 02:10:41,760

the launch pad

3026

02:10:45,030 --> 02:10:44,159

but what wolfgang understood very early

3027

02:10:48,510 --> 02:10:45,040

on

3028

02:10:51,430 --> 02:10:48,520

was that this is a completely

3029

02:10:55,510 --> 02:10:51,440

ridiculous notion

3030

02:10:59,189 --> 02:10:55,520

the world in fact does not reduce

3031

02:11:01,910 --> 02:10:59,199

to quantity as a matter of fact the vast

3032

02:11:03,270 --> 02:11:01,920

majority of the world that matters to us

3033

02:11:07,510 --> 02:11:03,280

as human beings

3034

02:11:09,350 --> 02:11:07,520

can't be expressed quantitatively at all

3035

02:11:11,430 --> 02:11:09,360

there are people listening to my voice

3036

02:11:15,109 --> 02:11:11,440

who love their wives

3037

02:11:16,870 --> 02:11:15,119

and children and husbands there is no

3038

02:11:19,669 --> 02:11:16,880

equation to express

3039

02:11:21,750 --> 02:11:19,679

that that's right and yes the physicist

3040

02:11:22,790 --> 02:11:21,760

when you really pin him down is going to

3041

02:11:25,270 --> 02:11:22,800

insist that

3042

02:11:27,589 --> 02:11:25,280

all of this is an illusion you see these

3043

02:11:31,750 --> 02:11:27,599

are just subjective

3044

02:11:35,910 --> 02:11:31,760

outcomes of neuron paths in our brains

3045

02:11:39,109 --> 02:11:35,920

which are constructing the illusion

3046

02:11:41,189 --> 02:11:39,119

of oh that's a beautiful sunset

3047

02:11:42,709 --> 02:11:41,199

no it isn't really it's just certain

3048

02:11:45,830 --> 02:11:42,719

wavelengths of light

3049

02:11:49,109 --> 02:11:45,840

being uh uh affected by the

3050

02:11:52,390 --> 02:11:49,119

refraction index of the atmosphere

3051
02:11:55,510 --> 02:11:52,400
you see that's an inadequate expression

3052
02:11:58,629 --> 02:11:55,520
of reality that is not

3053
02:12:01,910 --> 02:11:58,639
reality it is a component

3054
02:12:03,430 --> 02:12:01,920
of reality yes part of what makes that a

3055
02:12:06,870 --> 02:12:03,440
beautiful sunset

3056
02:12:09,350 --> 02:12:06,880
is the wavelengths of light being

3057
02:12:12,950 --> 02:12:09,360
refracted through the atmosphere that

3058
02:12:16,310 --> 02:12:12,960
expresses the quantitative side

3059
02:12:17,750 --> 02:12:16,320
but it doesn't even begin to encompass

3060
02:12:20,870 --> 02:12:17,760
the truth

3061
02:12:24,629 --> 02:12:20,880
of what that sunset really is

3062
02:12:26,709 --> 02:12:24,639
wolfgang understood this early enough

3063
02:12:28,629 --> 02:12:26,719

and he was well educated in the hard

3064

02:12:29,830 --> 02:12:28,639

sciences and mathematical sciences

3065

02:12:32,149 --> 02:12:29,840

enough

3066

02:12:35,189 --> 02:12:32,159

to be able to do the most important

3067

02:12:38,550 --> 02:12:35,199

thing it is possible to do right now

3068

02:12:39,270 --> 02:12:38,560

point the way forward to the inevitable

3069

02:12:46,069 --> 02:12:39,280

next

3070

02:12:46,870 --> 02:12:46,079

story the one that we will find

3071

02:12:51,109 --> 02:12:46,880

ourselves

3072

02:12:54,069 --> 02:12:51,119

constructing once the pillars really do

3073

02:12:55,510 --> 02:12:54,079

collapse on the multiverse and many

3074

02:12:56,870 --> 02:12:55,520

worlds

3075

02:12:58,550 --> 02:12:56,880

and that world's going to look something

3076

02:13:01,189 --> 02:12:58,560

like this according to wolfgang and i i

3077

02:13:04,470 --> 02:13:01,199

think he's right

3078

02:13:07,510 --> 02:13:04,480

physics will have to surrender its

3079

02:13:09,669 --> 02:13:07,520

totalist pretensions and and they were

3080

02:13:11,430 --> 02:13:09,679

always just an illusion anyway

3081

02:13:12,629 --> 02:13:11,440

this idea of a theory of everything or

3082

02:13:13,990 --> 02:13:12,639

an equation you were going to write down

3083

02:13:14,870 --> 02:13:14,000

on a t-shirt that would explain

3084

02:13:16,790 --> 02:13:14,880

everything in the universe

3085

02:13:19,430 --> 02:13:16,800

that was never anything other than an

3086

02:13:23,270 --> 02:13:19,440

illusion in the first place

3087

02:13:25,270 --> 02:13:23,280

once science surrenders its totalist

3088

02:13:26,310 --> 02:13:25,280

pretenses it'll be the best thing that

3089

02:13:29,189 --> 02:13:26,320

ever happened to it

3090

02:13:29,669 --> 02:13:29,199

because it will then understand that its

3091

02:13:33,270 --> 02:13:29,679

method

3092

02:13:36,310 --> 02:13:33,280

is perfectly situated to

3093

02:13:40,229 --> 02:13:36,320

explore that part of reality

3094

02:13:42,390 --> 02:13:40,239

that can be known through its methods

3095

02:13:44,229 --> 02:13:42,400

great news jimmy we get to keep our

3096

02:13:46,390 --> 02:13:44,239

computers our electric guitars

3097

02:13:47,589 --> 02:13:46,400

and our television sets we don't have to

3098

02:13:50,629 --> 02:13:47,599

give them up

3099

02:13:51,589 --> 02:13:50,639

well science can well okay we can

3100

02:13:58,149 --> 02:13:51,599

continue to

3101

02:13:59,430 --> 02:13:58,159

aspects of reality but these other

3102

02:14:01,750 --> 02:13:59,440

aspects

3103

02:14:02,470 --> 02:14:01,760

are not illusions they are not the

3104

02:14:05,830 --> 02:14:02,480

product of

3105

02:14:07,350 --> 02:14:05,840

neuronic neuronal interactions in a

3106

02:14:10,470 --> 02:14:07,360

brain

3107

02:14:12,149 --> 02:14:10,480

they actually point to that part of

3108

02:14:15,350 --> 02:14:12,159

reality that humanity has

3109

02:14:18,390 --> 02:14:15,360

always known is real

3110

02:14:19,990 --> 02:14:18,400

what some would call the spiritual uh

3111

02:14:23,109 --> 02:14:20,000

what wolfgang calls

3112

02:14:25,109 --> 02:14:23,119

vertical causation forms of causation

3113

02:14:27,030 --> 02:14:25,119

that do not emanate from down at the

3114

02:14:30,149 --> 02:14:27,040

bottom in the particles

3115

02:14:33,990 --> 02:14:30,159

but emanate from above from

3116

02:14:35,109 --> 02:14:34,000

higher domains and the knowledge that we

3117

02:14:37,589 --> 02:14:35,119

have acquired

3118

02:14:40,069 --> 02:14:37,599

from the great ancient schools

3119

02:14:42,750 --> 02:14:40,079

concerning these higher domains are

3120

02:14:45,589 --> 02:14:42,760

proving themselves to be absolutely

3121

02:14:48,870 --> 02:14:45,599

indispensable in resolving

3122

02:14:51,990 --> 02:14:48,880

for example schrodinger's cat

3123

02:14:55,030 --> 02:14:52,000

why is it that schrodinger's cat is only

3124

02:14:55,510 --> 02:14:55,040

dead or alive when quantum mechanics

3125

02:14:58,470 --> 02:14:55,520

tells us

3126
02:14:58,870 --> 02:14:58,480
it is both dead and alive wolfgang smith

3127
02:15:01,750 --> 02:14:58,880
can

3128
02:15:02,430 --> 02:15:01,760
answer that question because wolfgang

3129
02:15:06,149 --> 02:15:02,440
smith

3130
02:15:09,350 --> 02:15:06,159
understands the nature

3131
02:15:11,350 --> 02:15:09,360
of the ancient wisdom schools which

3132
02:15:14,709 --> 02:15:11,360
dealt with the questions of

3133
02:15:15,030 --> 02:15:14,719
being there's no mathematical equation

3134
02:15:17,589 --> 02:15:15,040
for

3135
02:15:18,709 --> 02:15:17,599
being there's no mathematical equation

3136
02:15:21,510 --> 02:15:18,719
for laughter

3137
02:15:23,589 --> 02:15:21,520
right doesn't exist yeah exactly these

3138
02:15:26,629 --> 02:15:23,599

are not illusions these are not

3139

02:15:29,830 --> 02:15:26,639

subjective illusions of

3140

02:15:33,030 --> 02:15:29,840

uh neurons in our brains we are

3141

02:15:36,149 --> 02:15:33,040

actually in a world where these

3142

02:15:39,189 --> 02:15:36,159

things are not only real

3143

02:15:40,589 --> 02:15:39,199

they are more real and more fundamental

3144

02:15:43,830 --> 02:15:40,599

than the physicists

3145

02:15:47,270 --> 02:15:43,840

equations are real

3146

02:15:49,270 --> 02:15:47,280

we explored i'm sorry i interrupted you

3147

02:15:51,589 --> 02:15:49,280

no no no go right ahead this is what

3148

02:15:53,109 --> 02:15:51,599

wolfgang is on to and this is why i

3149

02:15:56,470 --> 02:15:53,119

think that uh

3150

02:15:57,910 --> 02:15:56,480

that he has he's the first one to really

3151

02:15:59,830 --> 02:15:57,920

point the way forward here

3152

02:16:01,990 --> 02:15:59,840

he's way ahead of his time probably 40

3153

02:16:05,589 --> 02:16:02,000

years ahead of his time

3154

02:16:09,030 --> 02:16:05,599

but he has it we explored all of this

3155

02:16:09,990 --> 02:16:09,040

um in our new series it's called the h

3156

02:16:13,109 --> 02:16:10,000

factor

3157

02:16:16,310 --> 02:16:13,119

and pushing the envelope with uh

3158

02:16:17,669 --> 02:16:16,320

the transition of you know probably the

3159

02:16:19,750 --> 02:16:17,679

most fantastic

3160

02:16:20,950 --> 02:16:19,760

thing creation in the universe is the

3161

02:16:24,629 --> 02:16:20,960

human brain

3162

02:16:25,750 --> 02:16:24,639

and and what what you know how does

3163

02:16:28,870 --> 02:16:25,760

consciousness

3164

02:16:30,149 --> 02:16:28,880

arrive from you know three and a half

3165

02:16:32,469 --> 02:16:30,159

pounds of gray

3166

02:16:34,709 --> 02:16:32,479

goop you know inside of our skulls but

3167

02:16:35,589 --> 02:16:34,719

this is this is the issue that i have

3168

02:16:37,750 --> 02:16:35,599

with that

3169

02:16:38,629 --> 02:16:37,760

there's a there's a lot of uh

3170

02:16:41,429 --> 02:16:38,639

intelligent

3171

02:16:42,309 --> 02:16:41,439

people out there pursuing uh

3172

02:16:44,629 --> 02:16:42,319

consciousness

3173

02:16:46,549 --> 02:16:44,639

and going to speak with the dalai lama

3174

02:16:47,750 --> 02:16:46,559

and trying to figure out artificial

3175

02:16:50,070 --> 02:16:47,760

intelligence and

3176

02:16:50,870 --> 02:16:50,080

and is consciousness coming into play

3177

02:16:53,509 --> 02:16:50,880

but

3178

02:16:54,309 --> 02:16:53,519

we've got to get somebody like lawrence

3179

02:16:57,349 --> 02:16:54,319

krauss

3180

02:17:01,030 --> 02:16:57,359

or richard dawkins to flip

3181

02:17:01,910 --> 02:17:01,040

right and well they it would be like

3182

02:17:05,030 --> 02:17:01,920

asking the

3183

02:17:05,509 --> 02:17:05,040

you know it would be like asking uh you

3184

02:17:11,750 --> 02:17:05,519

know

3185

02:17:14,549 --> 02:17:11,760

donald trump to flip democrat or asking

3186

02:17:15,990 --> 02:17:14,559

kamala harris to flip republicans their

3187

02:17:19,190 --> 02:17:16,000

flags are planted

3188

02:17:21,349 --> 02:17:19,200

they have built their forts upon fixed

3189

02:17:21,830 --> 02:17:21,359

fortifications that is the great general

3190

02:17:26,389 --> 02:17:21,840

george

3191

02:17:28,950 --> 02:17:26,399

s patton once said fixed fortifications

3192

02:17:30,469 --> 02:17:28,960

are a monument to the stupidity of

3193

02:17:33,669 --> 02:17:30,479

mankind

3194

02:17:36,070 --> 02:17:33,679

let them have their fortress let them

3195

02:17:39,669 --> 02:17:36,080

have their moment in the sun

3196

02:17:42,870 --> 02:17:39,679

the world is moving on they have

3197

02:17:45,589 --> 02:17:42,880

no answers they have a following

3198

02:17:47,270 --> 02:17:45,599

they have a status and that's fine let

3199

02:17:49,349 --> 02:17:47,280

them enjoy it

3200

02:17:50,389 --> 02:17:49,359

the future does not belong to them the

3201

02:17:52,629 --> 02:17:50,399

past and

3202

02:17:53,830 --> 02:17:52,639

to a certain extent the present belongs

3203

02:17:56,389 --> 02:17:53,840

to them

3204

02:18:00,070 --> 02:17:56,399

but here's one thing i can tell you for

3205

02:18:07,589 --> 02:18:05,110

any attempt no matter what it is

3206

02:18:09,910 --> 02:18:07,599

to explain and again the word

3207

02:18:11,830 --> 02:18:09,920

consciousness is rather ill-defined it

3208

02:18:13,509 --> 02:18:11,840

it it doesn't have a rigorous meaning

3209

02:18:15,509 --> 02:18:13,519

what's your definition i would well

3210

02:18:17,030 --> 02:18:15,519

what's your what i would say rather than

3211

02:18:21,030 --> 02:18:17,040

consciousness

3212

02:18:23,190 --> 02:18:21,040

is intelligibility

3213

02:18:26,629 --> 02:18:23,200

in other words when we look out at the

3214

02:18:29,429 --> 02:18:26,639

world we don't need to do the equation

3215

02:18:30,790 --> 02:18:29,439

that tells us that that's a beautiful

3216

02:18:33,429 --> 02:18:30,800

blue sky

3217

02:18:34,950 --> 02:18:33,439

oh look at the lovely green trees we

3218

02:18:36,469 --> 02:18:34,960

don't have to calculate which

3219

02:18:39,750 --> 02:18:36,479

wavelengths our eyes

3220

02:18:40,469 --> 02:18:39,760

are receiving this is what the ancients

3221

02:18:43,589 --> 02:18:40,479

called

3222

02:18:44,469 --> 02:18:43,599

the intellect the the ability to

3223

02:18:47,910 --> 02:18:44,479

directly

3224

02:18:50,150 --> 02:18:47,920

perceive being this is not a

3225

02:18:50,469 --> 02:18:50,160

mathematical process and it is not even

3226

02:19:17,429 --> 02:18:50,479

a

3227

02:19:20,709 --> 02:19:17,439

so infected with this notion

3228

02:19:22,469 --> 02:19:20,719

that quantity is everything

3229

02:19:24,629 --> 02:19:22,479

that we have almost subconsciously

3230

02:19:25,990 --> 02:19:24,639

accepted if if you can't write it down

3231

02:19:30,150 --> 02:19:26,000

in an equation it can't be

3232

02:19:33,030 --> 02:19:30,160

true and that is the greatest

3233

02:19:35,429 --> 02:19:33,040

challenge that we face and luckily we're

3234

02:19:39,509 --> 02:19:35,439

making some real progress

3235

02:19:43,270 --> 02:19:39,519

because quantum physics has presented us

3236

02:19:45,589 --> 02:19:43,280

with a fundamental inability

3237

02:19:46,309 --> 02:19:45,599

to use mathematics to explain something

3238

02:19:48,230 --> 02:19:46,319

that happens

3239

02:19:51,110 --> 02:19:48,240

every time we measure a quantum system

3240

02:19:54,150 --> 02:19:51,120

in the lab the wave function collapse

3241

02:19:57,190 --> 02:19:54,160

is instantaneous unpredictable

3242

02:19:59,429 --> 02:19:57,200

and cannot be described by any equation

3243

02:20:00,870 --> 02:19:59,439

it collapses the best equation we have

3244

02:20:03,349 --> 02:20:00,880

the schrodinger equation

3245

02:20:04,950 --> 02:20:03,359

you measure a quantum system boom right

3246

02:20:08,230 --> 02:20:04,960

then right there the

3247

02:20:10,790 --> 02:20:08,240

schrodinger equation collapses

3248

02:20:12,550 --> 02:20:10,800

why well they don't have the faintest

3249

02:20:15,670 --> 02:20:12,560

idea why

3250

02:20:16,389 --> 02:20:15,680

because theoretically there should be no

3251

02:20:19,030 --> 02:20:16,399

collapse at

3252

02:20:20,469 --> 02:20:19,040

all i mean look the detector is just

3253

02:20:22,550 --> 02:20:20,479

another collection of quantum

3254

02:20:24,469 --> 02:20:22,560

particles they should obey the quantity

3255

02:20:27,670 --> 02:20:24,479

the schrodinger equation too

3256

02:20:31,110 --> 02:20:27,680

but they don't why

3257

02:20:33,510 --> 02:20:31,120

what is it about the detector

3258

02:20:35,510 --> 02:20:33,520

this is the most interesting question in

3259

02:20:37,270 --> 02:20:35,520

physics right now

3260

02:20:38,950 --> 02:20:37,280

and by the way one of the people who was

3261

02:20:40,389 --> 02:20:38,960

in the principle but by the way

3262

02:20:43,110 --> 02:20:40,399

the man i thought was the most

3263

02:20:44,230 --> 02:20:43,120

impressive of all the physicists that i

3264

02:20:46,150 --> 02:20:44,240

interviewed for the principles a man

3265

02:20:48,630 --> 02:20:46,160

named george ellis

3266

02:20:49,590 --> 02:20:48,640

george ellis just only about two years

3267

02:20:52,870 --> 02:20:49,600

ago published an

3268

02:20:56,469 --> 02:20:52,880

absolutely monumental paper

3269

02:20:58,710 --> 02:20:56,479

examining the quantum measuring problem

3270

02:21:00,790 --> 02:20:58,720

in detail and you know what he concluded

3271

02:21:05,750 --> 02:21:00,800

he concluded

3272

02:21:08,309 --> 02:21:05,760

that there exists a form of causation

3273

02:21:09,309 --> 02:21:08,319

in every quantum measurement that he

3274

02:21:12,230 --> 02:21:09,319

calls

3275

02:21:13,110 --> 02:21:12,240

top-down causation this is a form of

3276

02:21:16,150 --> 02:21:13,120

causation

3277

02:21:19,030 --> 02:21:16,160

unknown to physics

3278

02:21:19,830 --> 02:21:19,040

and he says this is unquestionably

3279

02:21:22,469 --> 02:21:19,840

active in

3280

02:21:23,750 --> 02:21:22,479

every collapse of a quantum wave

3281

02:21:25,910 --> 02:21:23,760

function

3282

02:21:26,870 --> 02:21:25,920

this is the beginning of the monumental

3283

02:21:29,349 --> 02:21:26,880

change

3284

02:21:31,110 --> 02:21:29,359

i i always say that when you watch the

3285

02:21:31,910 --> 02:21:31,120

end of quantum reality you will find

3286

02:21:35,030 --> 02:21:31,920

your world

3287

02:21:37,190 --> 02:21:35,040

turned right side up because

3288

02:21:39,110 --> 02:21:37,200

top-down causation is just another

3289

02:21:40,070 --> 02:21:39,120

version of what wolfgang smith told us

3290

02:21:43,349 --> 02:21:40,080

30 years ago

3291

02:21:45,349 --> 02:21:43,359

was vertical causation and all of a

3292

02:21:47,190 --> 02:21:45,359

sudden instead of looking down down down

3293

02:21:48,630 --> 02:21:47,200

down down down down deeper and deeper

3294

02:21:51,030 --> 02:21:48,640

deeper to the smaller and smaller and

3295

02:21:54,469 --> 02:21:51,040

smaller and smaller

3296

02:21:54,790 --> 02:21:54,479

we have to look up again we have to look

3297

02:21:58,630 --> 02:21:54,800

up

3298

02:22:02,309 --> 02:21:58,640

and recognize active forms of causation

3299

02:22:05,590 --> 02:22:02,319

in our world that do not reduce

3300

02:22:08,150 --> 02:22:05,600

to mathematical equations this is the

3301
02:22:12,150 --> 02:22:08,160
recovery of the vertical dimension

3302
02:22:13,349 --> 02:22:12,160
of reality and it will be a monumental

3303
02:22:16,469 --> 02:22:13,359
change

3304
02:22:19,670 --> 02:22:16,479
in our civilization if

3305
02:22:23,110 --> 02:22:19,680
if if science did

3306
02:22:25,429 --> 02:22:23,120
choose to focus on

3307
02:22:26,790 --> 02:22:25,439
an attempted measurement of of

3308
02:22:29,270 --> 02:22:26,800
consciousness

3309
02:22:30,389 --> 02:22:29,280
um which i think directly connects to

3310
02:22:33,590 --> 02:22:30,399
not only em

3311
02:22:35,030 --> 02:22:33,600
but uh uh entanglement and

3312
02:22:37,670 --> 02:22:35,040
and other things that have been

3313
02:22:41,190 --> 02:22:37,680

presented in theoretical physics

3314

02:22:43,110 --> 02:22:41,200

um if they were able to do that

3315

02:22:44,950 --> 02:22:43,120

or no if they were able to take the same

3316

02:22:45,270 --> 02:22:44,960

energies that they have been focusing

3317

02:22:48,230 --> 02:22:45,280

with

3318

02:22:49,030 --> 02:22:48,240

in other avenues couldn't they turn

3319

02:22:52,309 --> 02:22:49,040

around

3320

02:22:54,150 --> 02:22:52,319

and and focus on consciousness and talk

3321

02:22:55,750 --> 02:22:54,160

to the spiritual community

3322

02:22:57,190 --> 02:22:55,760

and and start to make these direct

3323

02:23:00,150 --> 02:22:57,200

connections and possibly

3324

02:23:01,030 --> 02:23:00,160

measure the one great question that has

3325

02:23:03,830 --> 02:23:01,040

been around

3326

02:23:04,230 --> 02:23:03,840

since the dawn of time which is who are

3327

02:23:07,590 --> 02:23:04,240

we

3328

02:23:10,070 --> 02:23:07,600

going

3329

02:23:13,030 --> 02:23:10,080

unfortunately their method only allows

3330

02:23:15,510 --> 02:23:13,040

them to explore the quantitative

3331

02:23:17,270 --> 02:23:15,520

aspects of this question and the

3332

02:23:18,309 --> 02:23:17,280

quantitative aspects of this question

3333

02:23:22,070 --> 02:23:18,319

are by far

3334

02:23:25,030 --> 02:23:22,080

the least important now

3335

02:23:26,070 --> 02:23:25,040

science will inevitably it's already

3336

02:23:29,830 --> 02:23:26,080

started to happen

3337

02:23:31,910 --> 02:23:29,840

and it cannot be stopped science will

3338

02:23:34,150 --> 02:23:31,920

probably within the lifetime of the

3339

02:23:37,750 --> 02:23:34,160

younger people listening

3340

02:23:39,990 --> 02:23:37,760

will be forced to admit that it

3341

02:23:41,830 --> 02:23:40,000

cannot provide us a comprehensive

3342

02:23:43,910 --> 02:23:41,840

picture of the world

3343

02:23:44,870 --> 02:23:43,920

that there are elements in the world

3344

02:23:48,710 --> 02:23:44,880

which are both

3345

02:23:52,150 --> 02:23:48,720

real and causative

3346

02:23:54,550 --> 02:23:52,160

that do not reduce to quantity that will

3347

02:23:59,750 --> 02:23:54,560

probably happen within the next

3348

02:24:02,790 --> 02:23:59,760

20 to 40 years however

3349

02:24:05,910 --> 02:24:02,800

that means in terms of

3350

02:24:08,230 --> 02:24:05,920

okay so we

3351
02:24:08,950 --> 02:24:08,240
can't describe consciousness just in

3352
02:24:12,070 --> 02:24:08,960
terms of

3353
02:24:14,550 --> 02:24:12,080
neuron interactions in the brain

3354
02:24:16,790 --> 02:24:14,560
because all of those are implicitly

3355
02:24:18,309 --> 02:24:16,800
reducible to quantity

3356
02:24:21,910 --> 02:24:18,319
you may not have a computer that's

3357
02:24:25,190 --> 02:24:21,920
powerful enough to do all of that math

3358
02:24:28,950 --> 02:24:25,200
but at least theoretically

3359
02:24:32,429 --> 02:24:28,960
all of those interactions are implicitly

3360
02:24:36,790 --> 02:24:32,439
susceptible of being represented

3361
02:24:41,990 --> 02:24:36,800
quantitatively the problem is this

3362
02:24:45,270 --> 02:24:42,000
there is no chance none whatsoever

3363
02:24:49,510 --> 02:24:45,280

that the actions of the human

3364

02:24:52,230 --> 02:24:49,520

intellect reduce to quantity

3365

02:24:53,830 --> 02:24:52,240

we do not calculate that beautiful

3366

02:24:58,469 --> 02:24:53,840

sunset

3367

02:25:01,830 --> 02:24:58,479

we simply receive it it is impossible

3368

02:25:05,349 --> 02:25:01,840

to derive that beautiful sunset as some

3369

02:25:07,830 --> 02:25:05,359

manipulation of neurons translating

3370

02:25:08,950 --> 02:25:07,840

a two-dimensional image hitting our

3371

02:25:11,590 --> 02:25:08,960

retinas

3372

02:25:13,429 --> 02:25:11,600

it doesn't work it hasn't worked it

3373

02:25:15,349 --> 02:25:13,439

never will work

3374

02:25:17,349 --> 02:25:15,359

we're going to have to recover that

3375

02:25:20,630 --> 02:25:17,359

aspect of reality

3376

02:25:23,830 --> 02:25:20,640

that pertains to the soul

3377

02:25:26,070 --> 02:25:23,840

the powers of the soul it's not the

3378

02:25:29,510 --> 02:25:26,080

powers of the brain

3379

02:25:31,750 --> 02:25:29,520

it's the powers of the being

3380

02:25:33,030 --> 02:25:31,760

and because that has fallen into such

3381

02:25:37,190 --> 02:25:33,040

disrepute

3382

02:25:40,309 --> 02:25:37,200

and disfavor in our scientific age

3383

02:25:42,550 --> 02:25:40,319

it'll be a while before science is

3384

02:25:43,670 --> 02:25:42,560

finally smart enough to say okay we know

3385

02:25:46,790 --> 02:25:43,680

there is something

3386

02:25:48,150 --> 02:25:46,800

up there our method will only allow us

3387

02:25:50,630 --> 02:25:48,160

to approach it from

3388

02:25:51,389 --> 02:25:50,640

below we will find very interesting

3389

02:25:55,030 --> 02:25:51,399

things at the

3390

02:25:56,870 --> 02:25:55,040

intersection of the quantitative and the

3391

02:25:59,110 --> 02:25:56,880

qualitative

3392

02:26:00,950 --> 02:25:59,120

but our method cannot take us anywhere

3393

02:26:03,670 --> 02:26:00,960

beyond the quantitative

3394

02:26:04,790 --> 02:26:03,680

that's why by the way jimmy i have a

3395

02:26:07,830 --> 02:26:04,800

standing

3396

02:26:11,270 --> 02:26:07,840

bet with anybody who wants to take it

3397

02:26:15,429 --> 02:26:11,280

there will never be any

3398

02:26:18,230 --> 02:26:15,439

actual artificial intelligence

3399

02:26:19,349 --> 02:26:18,240

the the the words artificial

3400

02:26:21,910 --> 02:26:19,359

intelligence

3401
02:26:22,389 --> 02:26:21,920
are at least as mutually contradictory

3402
02:26:25,670 --> 02:26:22,399
as

3403
02:26:27,110 --> 02:26:25,680
military intelligence the two simply do

3404
02:26:30,150 --> 02:26:27,120
not go together

3405
02:26:33,349 --> 02:26:30,160
intelligence has nothing to do

3406
02:26:34,230 --> 02:26:33,359
with algorithms intelligence has nothing

3407
02:26:38,910 --> 02:26:34,240
to do

3408
02:26:42,469 --> 02:26:38,920
with the direct

3409
02:26:44,150 --> 02:26:42,479
apprehension of the real

3410
02:26:46,469 --> 02:26:44,160
and that is something that mathematics

3411
02:26:48,070 --> 02:26:46,479
is simply not ever going to be able to

3412
02:26:51,590 --> 02:26:48,080
uh come to terms with

3413
02:26:54,950 --> 02:26:51,600

luckily there is enormous

3414

02:26:55,990 --> 02:26:54,960

knowledge wisdom rigorous scientific

3415

02:26:59,349 --> 02:26:56,000

knowledge

3416

02:27:01,110 --> 02:26:59,359

about this power

3417

02:27:03,270 --> 02:27:01,120

that the ancient wisdom schools spent

3418

02:27:05,510 --> 02:27:03,280

thousands of years

3419

02:27:07,030 --> 02:27:05,520

of compiling this is why wolfgang went

3420

02:27:10,230 --> 02:27:07,040

to india

3421

02:27:11,910 --> 02:27:10,240

was to contact these wisdom schools and

3422

02:27:15,429 --> 02:27:11,920

what he learned there is what

3423

02:27:16,870 --> 02:27:15,439

saved him from being sucked into this

3424

02:27:19,910 --> 02:27:16,880

black hole

3425

02:27:21,990 --> 02:27:19,920

of everything reduces to quantity

3426

02:27:23,590 --> 02:27:22,000

the most important thing is that the

3427

02:27:26,389 --> 02:27:23,600

world does not

3428

02:27:27,270 --> 02:27:26,399

reduce to quantity there are aspects of

3429

02:27:30,309 --> 02:27:27,280

the world

3430

02:27:32,190 --> 02:27:30,319

that no equation can ever comprehend but

3431

02:27:34,950 --> 02:27:32,200

our intellect

3432

02:27:36,309 --> 02:27:34,960

instantaneously and intuitively

3433

02:27:39,429 --> 02:27:36,319

comprehend it

3434

02:27:41,750 --> 02:27:39,439

it really is a red apple out there it's

3435

02:27:45,190 --> 02:27:41,760

not just a bunch of neurons

3436

02:27:48,550 --> 02:27:45,200

giving us the illusion of one the world

3437

02:27:51,590 --> 02:27:48,560

that we perceive is in a very real sense

3438

02:27:52,870 --> 02:27:51,600

far more real than the world of the

3439

02:27:55,429 --> 02:27:52,880

physicist

3440

02:27:56,710 --> 02:27:55,439

and we all know it run deep we all know

3441

02:27:58,630 --> 02:27:56,720

it every time we walk down

3442

02:28:00,309 --> 02:27:58,640

beautiful sunsets down the street and

3443

02:28:03,830 --> 02:28:00,319

watch a beautiful sunset

3444

02:28:06,230 --> 02:28:03,840

our being knows even if our educated

3445

02:28:09,030 --> 02:28:06,240

scientific pretensions try to tell us

3446

02:28:10,150 --> 02:28:09,040

oh it's just wavelengths and uh and uh

3447

02:28:12,469 --> 02:28:10,160

refractions

3448

02:28:14,389 --> 02:28:12,479

well you know you know when these

3449

02:28:16,469 --> 02:28:14,399

scientists and and thinkers

3450

02:28:18,309 --> 02:28:16,479

you know go to tibet you know talk with

3451

02:28:19,270 --> 02:28:18,319

these teachers and leaders or the dalai

3452

02:28:21,910 --> 02:28:19,280

lama

3453

02:28:22,950 --> 02:28:21,920

they it's exactly what you're saying

3454

02:28:24,469 --> 02:28:22,960

they are turning around

3455

02:28:27,270 --> 02:28:24,479

you were going to come here sooner or

3456

02:28:29,270 --> 02:28:27,280

later right yeah exactly

3457

02:28:31,830 --> 02:28:29,280

you remember that story that wonderful

3458

02:28:33,429 --> 02:28:31,840

story uh i i can't i i'm probably gonna

3459

02:28:35,670 --> 02:28:33,439

mess it up here but

3460

02:28:37,110 --> 02:28:35,680

you know the story is that uh the these

3461

02:28:40,950 --> 02:28:37,120

physicists are

3462

02:28:42,469 --> 02:28:40,960

climbing this straight up stroke like el

3463

02:28:45,510 --> 02:28:42,479

capitan you know they

3464

02:28:47,830 --> 02:28:45,520

struggle and struggle and they finally

3465

02:28:49,030 --> 02:28:47,840

drag themselves over the top and they

3466

02:28:51,510 --> 02:28:49,040

see

3467

02:28:52,950 --> 02:28:51,520

a whole bunch of theologian and mystics

3468

02:28:53,349 --> 02:28:52,960

gathered around the campfire and they

3469

02:28:55,349 --> 02:28:53,359

say

3470

02:28:57,190 --> 02:28:55,359

oh good you finally made it come on over

3471

02:29:00,469 --> 02:28:57,200

so let's sit down and talk

3472

02:29:02,950 --> 02:29:00,479

that's exactly it you know i say it all

3473

02:29:05,910 --> 02:29:02,960

the time but the most spiritual person

3474

02:29:07,830 --> 02:29:05,920

on the planet is the physicist when the

3475

02:29:11,270 --> 02:29:07,840

plane is going down

3476

02:29:12,950 --> 02:29:11,280

oh boy i love it i love it i love it

3477

02:29:15,030 --> 02:29:12,960

and this is this is a beautiful thing

3478

02:29:16,710 --> 02:29:15,040

and what gives me such hope even though

3479

02:29:18,389 --> 02:29:16,720

we're entering into a very dark time

3480

02:29:20,830 --> 02:29:18,399

here yeah you know

3481

02:29:23,030 --> 02:29:20,840

we are entering a period of

3482

02:29:27,030 --> 02:29:23,040

civilizational

3483

02:29:28,469 --> 02:29:27,040

trauma that may possibly be the greatest

3484

02:29:30,469 --> 02:29:28,479

in many many centuries

3485

02:29:33,030 --> 02:29:30,479

and that's scary in a way but it's also

3486

02:29:35,270 --> 02:29:33,040

incredibly hopeful

3487

02:29:36,630 --> 02:29:35,280

we're about to learn something we're

3488

02:29:39,349 --> 02:29:36,640

about to recover

3489

02:29:40,630 --> 02:29:39,359

a lost element of what it means to be

3490

02:29:42,790 --> 02:29:40,640

human

3491

02:29:44,070 --> 02:29:42,800

and that is going to make for a much in

3492

02:29:47,429 --> 02:29:44,080

my opinion

3493

02:29:50,469 --> 02:29:47,439

a much more beautiful world and

3494

02:29:52,309 --> 02:29:50,479

we just have to sort of stick stick

3495

02:29:54,790 --> 02:29:52,319

through the rough patch here

3496

02:29:57,270 --> 02:29:54,800

yeah and do everything we can to to to

3497

02:29:59,670 --> 02:29:57,280

pass this on to the next generation

3498

02:30:01,270 --> 02:29:59,680

okay rick i'm i'm going to ask you now

3499

02:30:02,790 --> 02:30:01,280

uh i need you to stay

3500

02:30:04,550 --> 02:30:02,800

i need you to stay we got to go into

3501

02:30:06,630 --> 02:30:04,560

overtime i need you for 20 more minutes

3502

02:30:09,590 --> 02:30:06,640

there's no way this counts

3503

02:30:11,349 --> 02:30:09,600

this conversation doesn't end now um but

3504

02:30:13,670 --> 02:30:11,359

you know what that reminds me of i used

3505

02:30:17,110 --> 02:30:13,680

to get so frustrated as a kid

3506

02:30:19,590 --> 02:30:17,120

uh but you know you see the wise man uh

3507

02:30:21,429 --> 02:30:19,600

always say well to go forward you must

3508

02:30:24,469 --> 02:30:21,439

first go back

3509

02:30:26,710 --> 02:30:24,479

to go up you must first go down

3510

02:30:28,150 --> 02:30:26,720

well i guess you know what they're doing

3511

02:30:30,150 --> 02:30:28,160

do you know what they're doing

3512

02:30:31,270 --> 02:30:30,160

they're trying to break you out of your

3513

02:30:34,070 --> 02:30:31,280

logical

3514

02:30:35,830 --> 02:30:34,080

habits of perception they're trying to

3515

02:30:39,030 --> 02:30:35,840

get you to recover that

3516

02:30:40,070 --> 02:30:39,040

direct unmediated perception of the

3517

02:30:43,270 --> 02:30:40,080

being

3518

02:30:46,950 --> 02:30:43,280

because it ain't logical i'm telling you

3519

02:30:49,190 --> 02:30:46,960

the the human being has the power to

3520

02:30:50,870 --> 02:30:49,200

rationally chop things up into little

3521

02:30:53,750 --> 02:30:50,880

bits and that's very useful

3522

02:30:55,910 --> 02:30:53,760

very helpful helps us a lot because a

3523

02:30:56,870 --> 02:30:55,920

human being also has the ability to see

3524

02:31:00,710 --> 02:30:56,880

the whole

3525

02:31:02,469 --> 02:31:00,720

instantly and know it not by thinking

3526

02:31:03,990 --> 02:31:02,479

about it or analyzing it but by

3527

02:31:05,510 --> 02:31:04,000

perceiving it

3528

02:31:07,270 --> 02:31:05,520

and that's what we have to recover and

3529

02:31:09,429 --> 02:31:07,280

that's what we are going to recover

3530

02:31:11,110 --> 02:31:09,439

and we will and we will continue this

3531

02:31:12,950 --> 02:31:11,120

conversation right after this short

3532

02:31:16,469 --> 02:31:12,960

break we're heading into overtime

3533

02:31:17,110 --> 02:31:16,479

rick delano the new film is the end of

3534

02:31:19,510 --> 02:31:17,120

quantum

3535

02:31:20,630 --> 02:31:19,520

reality video on demand it's on all the

3536

02:31:23,270 --> 02:31:20,640

platforms out there

3537

02:31:25,190 --> 02:31:23,280

highly recommend it more with rick after

3538

02:31:27,030 --> 02:31:25,200

this short break this is faded black i

3539

02:31:29,270 --> 02:31:27,040

am your host jimmy church you can follow

3540

02:31:32,550 --> 02:31:29,280

me on twitter at j church radio

3541

02:31:36,389 --> 02:31:32,560

and uh rick what's your twitter

3542

02:31:37,349 --> 02:31:36,399

uh it is celos sophia oh god what is my

3543

02:31:40,790 --> 02:31:37,359

twitter

3544

02:31:42,550 --> 02:31:40,800

uh cielo's sophia.org we'll get it up

3545

02:31:43,750 --> 02:31:42,560

there right now in the feed we'll be

3546

02:31:50,550 --> 02:31:43,760

right back stay with us

3547

02:31:54,870 --> 02:31:52,870

hey what up y'all biblical fox here and

3548

02:32:00,070 --> 02:31:54,880

you are listening to my boy

3549

02:32:10,630 --> 02:32:03,349

despite popular opinion reading a book

3550

02:32:12,389 --> 02:32:10,640

will not make you smarter

3551
02:32:14,389 --> 02:32:12,399
this is jimmy church of fade to black

3552
02:32:17,590 --> 02:32:14,399
and i take life change t

3553
02:32:18,309 --> 02:32:17,600
supplements every single day it's what i

3554
02:32:22,830 --> 02:32:18,319
do

3555
02:32:26,630 --> 02:32:24,469
jimmychurchradio.com

3556
02:32:29,270 --> 02:32:26,640
when you take the beans from central

3557
02:32:29,830 --> 02:32:29,280
america with dashes of indonesian and

3558
02:32:32,070 --> 02:32:29,840
african

3559
02:32:34,150 --> 02:32:32,080
mixed in and then roasted to the dark

3560
02:32:37,349 --> 02:32:34,160
side of fade to black

3561
02:32:40,309 --> 02:32:37,359
you create the ultimate brew of fringe

3562
02:32:41,990 --> 02:32:40,319
introducing the fade to black blend from

3563
02:32:44,950 --> 02:32:42,000

river moon coffee

3564

02:32:47,110 --> 02:32:44,960

yes river moon's darkest customized

3565

02:32:50,230 --> 02:32:47,120

roast was created for the love

3566

02:32:51,590 --> 02:32:50,240

of fade to black the alchemy of

3567

02:32:54,389 --> 02:32:51,600

masterful roasting

3568

02:32:55,750 --> 02:32:54,399

and smoking the beans is in every sip of

3569

02:32:59,349 --> 02:32:55,760

this full-bodied

3570

02:33:01,910 --> 02:32:59,359

dark java i need my coffee doc

3571

02:33:02,870 --> 02:33:01,920

deep with distinct bittersweet chocolate

3572

02:33:05,429 --> 02:33:02,880

highlights

3573

02:33:05,990 --> 02:33:05,439

just like the bunker leaning further

3574

02:33:08,550 --> 02:33:06,000

into the

3575

02:33:09,030 --> 02:33:08,560

darkness of the roast is fade to black

3576

02:33:11,910 --> 02:33:09,040

blend

3577

02:33:14,230 --> 02:33:11,920

from river moon coffee just click on the

3578

02:33:15,190 --> 02:33:14,240

banner at jimmychurchradio.com and use

3579

02:33:19,590 --> 02:33:15,200

the promo code

3580

02:33:23,190 --> 02:33:19,600

f2b blend for 15 off of your order today

3581

02:33:26,790 --> 02:33:25,190

hello my name is billy carson and i'm a

3582

02:33:28,469 --> 02:33:26,800

best-selling author and the founder of

3583

02:33:30,150 --> 02:33:28,479

forbidden knowledge dot tv

3584

02:33:32,389 --> 02:33:30,160

together with my team we have built a

3585

02:33:33,990 --> 02:33:32,399

all new contest streaming tv platform

3586

02:33:34,550 --> 02:33:34,000

designed with every family member in

3587

02:33:36,070 --> 02:33:34,560

mind

3588

02:33:37,750 --> 02:33:36,080

if you have ever wanted to travel the

3589

02:33:39,190 --> 02:33:37,760

world and attend lectures and workshops

3590

02:33:39,830 --> 02:33:39,200

from your favorite speakers but weren't

3591

02:33:42,469 --> 02:33:39,840

able to

3592

02:33:43,190 --> 02:33:42,479

look no further forbidden knowledge dot

3593

02:33:44,790 --> 02:33:43,200

tv

3594

02:33:46,710 --> 02:33:44,800

there are dozens of workshops and

3595

02:33:48,790 --> 02:33:46,720

lectures from speakers you know and love

3596

02:33:50,710 --> 02:33:48,800

we have also included amazing categories

3597

02:33:52,550 --> 02:33:50,720

to assure that your consciousness is

3598

02:33:53,190 --> 02:33:52,560

entertained and elevating on a daily

3599

02:33:55,270 --> 02:33:53,200

basis

3600

02:33:56,469 --> 02:33:55,280

amazing interviews ancient history

3601
02:33:58,469 --> 02:33:56,479
ascension knowledge

3602
02:33:59,590 --> 02:33:58,479
wisdom teachings documentaries

3603
02:34:01,830 --> 02:33:59,600
conspiracies

3604
02:34:04,550 --> 02:34:01,840
mysteries health and fitness conscious

3605
02:34:06,630 --> 02:34:04,560
cooking meditations finance yoga and so

3606
02:34:08,790 --> 02:34:06,640
much more to start your free trial on

3607
02:34:11,030 --> 02:34:08,800
any mobile device or computer surf to

3608
02:34:12,710 --> 02:34:11,040
forbidden knowledge dot tv

3609
02:34:15,830 --> 02:34:12,720
that's forbidden knowledge with the

3610
02:34:18,230 --> 02:34:15,840
number four forbidden knowledge dot tv

3611
02:34:19,590 --> 02:34:18,240
again visit forbidden knowledge dot tv

3612
02:34:21,510 --> 02:34:19,600
today

3613
02:34:23,270 --> 02:34:21,520

the older we get the more important it

3614

02:34:25,590 --> 02:34:23,280

is to stay active and healthy

3615

02:34:27,670 --> 02:34:25,600

i exercise regularly eat right but

3616

02:34:29,590 --> 02:34:27,680

recently some new aches and pains have

3617

02:34:31,510 --> 02:34:29,600

really put a cramp in my routine

3618

02:34:34,070 --> 02:34:31,520

a good friend recently told me about

3619

02:34:36,389 --> 02:34:34,080

angioprim she said angioprim is the

3620

02:34:39,270 --> 02:34:36,399

original liquid oral chelation

3621

02:34:41,590 --> 02:34:39,280

supplement helping people since 2003.

3622

02:34:43,990 --> 02:34:41,600

chelation helps remove toxins heavy

3623

02:34:46,230 --> 02:34:44,000

metals calcium and cholesterol in veins

3624

02:34:46,550 --> 02:34:46,240

and arteries that may cause blockages

3625

02:34:49,429 --> 02:34:46,560

and

3626
02:34:51,670 --> 02:34:49,439
lead to unexplained pain research shows

3627
02:34:53,190 --> 02:34:51,680
the active ingredient in angioprim has

3628
02:34:54,830 --> 02:34:53,200
superior oral chelation

3629
02:34:56,389 --> 02:34:54,840
action that may help promote good

3630
02:34:58,630 --> 02:34:56,399
cardiovascular health

3631
02:34:59,590 --> 02:34:58,640
after a few weeks of taking angioprim my

3632
02:35:01,830 --> 02:34:59,600
pain was gone

3633
02:35:03,429 --> 02:35:01,840
now i'm back and more physically active

3634
02:35:06,910 --> 02:35:03,439
than ever find out more

3635
02:35:08,150 --> 02:35:06,920
go to angioprim.com

3636
02:35:10,230 --> 02:35:08,160
a-n-g-i-o-p-r-i-m.com

3637
02:35:13,790 --> 02:35:10,240
or talk to a trained consultant call

3638
02:35:21,910 --> 02:35:19,750

954-882-7221 that's 954-882-7221

3639

02:35:22,950 --> 02:35:21,920

are you intrigued by paranormal talk

3640

02:35:25,429 --> 02:35:22,960

radio you

3641

02:35:26,309 --> 02:35:25,439

love the new paranormal radio app from

3642

02:35:28,870 --> 02:35:26,319

talk stream

3643

02:35:30,950 --> 02:35:28,880

live you'll find a great selection of

3644

02:35:34,070 --> 02:35:30,960

talk shows covering ufos

3645

02:35:36,469 --> 02:35:34,080

ghosts strange phenomena and much more

3646

02:35:38,230 --> 02:35:36,479

download the paranormal radio app now

3647

02:35:40,150 --> 02:35:38,240

and start listening to the very best in

3648

02:35:41,670 --> 02:35:40,160

paranormal talk entertainment

3649

02:35:44,550 --> 02:35:41,680

including the network you're listening

3650

02:35:52,830 --> 02:35:44,560

to right now the paranormal radio app

3651
02:35:52,840 --> 02:35:56,870
store

3652
02:36:06,830 --> 02:35:59,910
it's not a lifestyle we chose we were

3653
02:36:22,950 --> 02:36:09,270
kgraradio.com

3654
02:36:29,270 --> 02:36:22,960
this is kjcr jimmychurchradio.com

3655
02:36:30,790 --> 02:36:29,280
[Music]

3656
02:36:32,790 --> 02:36:30,800
welcome back fade to black heading into

3657
02:36:34,230 --> 02:36:32,800
overtime rick delano

3658
02:36:36,389 --> 02:36:34,240
we're gonna go pull to pole there's no

3659
02:36:39,510 --> 02:36:36,399
way this conversation was even

3660
02:36:42,870 --> 02:36:39,520
close to ending

3661
02:36:43,190 --> 02:36:42,880
and uh you know uh rick i want to thank

3662
02:36:44,950 --> 02:36:43,200
you

3663
02:36:46,230 --> 02:36:44,960

uh for for the show tonight i look

3664

02:36:47,429 --> 02:36:46,240

forward to the next time that we have

3665

02:36:50,469 --> 02:36:47,439

you on so much

3666

02:36:51,750 --> 02:36:50,479

to discuss and we're just scratching the

3667

02:36:54,309 --> 02:36:51,760

surface tonight

3668

02:36:55,990 --> 02:36:54,319

uh it's your first time on the show but

3669

02:36:56,309 --> 02:36:56,000

uh i want to have some fun right now

3670

02:37:00,389 --> 02:36:56,319

let's

3671

02:37:04,389 --> 02:37:00,399

little bit uh for this last segment

3672

02:37:06,309 --> 02:37:04,399

and and it is this i talk about

3673

02:37:07,510 --> 02:37:06,319

the basics of the basics you know

3674

02:37:11,270 --> 02:37:07,520

particles

3675

02:37:14,070 --> 02:37:11,280

uh amino acids chemicals uh that are

3676

02:37:14,550 --> 02:37:14,080

everywhere in the universe and they only

3677

02:37:18,230 --> 02:37:14,560

can

3678

02:37:21,429 --> 02:37:18,240

combine so many ways and

3679

02:37:23,590 --> 02:37:21,439

certainly life on this earth is here

3680

02:37:24,950 --> 02:37:23,600

how we did it how it was pulled off was

3681

02:37:28,309 --> 02:37:24,960

it divine was there

3682

02:37:29,270 --> 02:37:28,319

some other intervention uh i'm open to

3683

02:37:33,110 --> 02:37:29,280

all ideas

3684

02:37:37,429 --> 02:37:33,120

but because of those basic thoughts

3685

02:37:41,030 --> 02:37:37,439

there must be a lot of life out there

3686

02:37:44,550 --> 02:37:41,040

how much life is in the milky way

3687

02:37:47,670 --> 02:37:44,560

uh i am i agree with max tegmark

3688

02:37:51,349 --> 02:37:47,680

and the two of us are obviously

3689

02:37:53,830 --> 02:37:51,359

in a very significant minority

3690

02:37:54,469 --> 02:37:53,840

but i agree with max tegmark that we are

3691

02:37:56,950 --> 02:37:54,479

already

3692

02:37:59,590 --> 02:37:56,960

in possession of sufficient

3693

02:38:02,790 --> 02:37:59,600

observational evidence to conclude

3694

02:38:05,030 --> 02:38:02,800

with a very high degree of competence

3695

02:38:07,030 --> 02:38:05,040

that there is no intelligent life not

3696

02:38:07,670 --> 02:38:07,040

only in the milky way galaxy but in the

3697

02:38:10,790 --> 02:38:07,680

entire

3698

02:38:14,150 --> 02:38:10,800

observable universe anywhere

3699

02:38:16,150 --> 02:38:14,160

except right here

3700

02:38:17,429 --> 02:38:16,160

now and when you say that which is

3701

02:38:20,710 --> 02:38:17,439

radical right

3702

02:38:23,429 --> 02:38:20,720

because uh uh

3703

02:38:24,550 --> 02:38:23,439

when we talk about the numbers just just

3704

02:38:26,630 --> 02:38:24,560

we just

3705

02:38:27,670 --> 02:38:26,640

get it down to the the fundamentals

3706

02:38:30,309 --> 02:38:27,680

elementals

3707

02:38:31,910 --> 02:38:30,319

we're just talking about numbers if you

3708

02:38:35,190 --> 02:38:31,920

shuffle a deck of cards

3709

02:38:37,349 --> 02:38:35,200

eventually uh and and deal them out

3710

02:38:38,309 --> 02:38:37,359

eventually if you shuffle them enough

3711

02:38:41,510 --> 02:38:38,319

times

3712

02:38:42,790 --> 02:38:41,520

you're gonna repeat the shuffle right

3713

02:38:46,150 --> 02:38:42,800

absolutely as a matter of fact

3714

02:38:50,230 --> 02:38:46,160

it's even it's very simple if

3715

02:38:53,349 --> 02:38:50,240

in fact life

3716

02:38:58,469 --> 02:38:53,359

is simply the right shuffle of

3717

02:39:02,230 --> 02:38:58,479

the deck if we grant that assumption

3718

02:39:04,950 --> 02:39:02,240

that it is incontestably certain

3719

02:39:06,070 --> 02:39:04,960

that life should be absolutely

3720

02:39:10,870 --> 02:39:06,080

everywhere

3721

02:39:15,110 --> 02:39:10,880

milky way galaxy

3722

02:39:18,150 --> 02:39:15,120

the problem jimmy is that it is not

3723

02:39:21,270 --> 02:39:18,160

why here's the argument

3724

02:39:21,990 --> 02:39:21,280

max says you do basically a statistical

3725

02:39:24,950 --> 02:39:22,000

analysis

3726
02:39:26,630 --> 02:39:24,960
based on orders of magnitude you start

3727
02:39:29,590 --> 02:39:26,640
with a centimeter

3728
02:39:30,389 --> 02:39:29,600
then 10 centimeters then 100 centimeters

3729
02:39:33,670 --> 02:39:30,399
a meter

3730
02:39:38,150 --> 02:39:33,680
and you you keep extending out

3731
02:39:41,429 --> 02:39:38,160
from earth in orders of magnitude

3732
02:39:44,550 --> 02:39:41,439
if life is just a shuffle

3733
02:39:48,389 --> 02:39:44,560
of the deck

3734
02:39:52,150 --> 02:39:48,399
then that means that we know there are

3735
02:39:53,910 --> 02:39:52,160
billions of planets perfectly good for

3736
02:39:57,190 --> 02:39:53,920
life

3737
02:40:00,550 --> 02:39:57,200
just in our own milky way galaxy and

3738
02:40:03,990 --> 02:40:00,560

billions of those are

3739

02:40:07,030 --> 02:40:04,000

billions of years older than

3740

02:40:10,870 --> 02:40:07,040

the earth okay it's a statistical

3741

02:40:15,990 --> 02:40:10,880

certainty here's the problem

3742

02:40:20,550 --> 02:40:16,000

we first flew under power in 1903

3743

02:40:23,910 --> 02:40:20,560

that's 117 years ago

3744

02:40:26,630 --> 02:40:23,920

we left the solar system

3745

02:40:28,469 --> 02:40:26,640

somewhere between about 2015 and about

3746

02:40:31,510 --> 02:40:28,479

2016 when the

3747

02:40:34,389 --> 02:40:31,520

voyager passed beyond the solar system

3748

02:40:34,790 --> 02:40:34,399

however you wanted to find it so it took

3749

02:40:37,830 --> 02:40:34,800

us

3750

02:40:41,590 --> 02:40:37,840

about a hundred and

3751

02:40:44,630 --> 02:40:41,600

thirteen or fourteen years to go from

3752

02:40:47,110 --> 02:40:44,640

very first powered flight to leaving the

3753

02:40:50,550 --> 02:40:47,120

solar system

3754

02:40:53,510 --> 02:40:50,560

where are we going to be in 10

3755

02:40:53,910 --> 02:40:53,520

000 years that isn't even a blink of an

3756

02:40:56,389 --> 02:40:53,920

eye

3757

02:40:57,750 --> 02:40:56,399

how about a hundred thousand how about a

3758

02:41:01,030 --> 02:40:57,760

million years

3759

02:41:05,349 --> 02:41:01,040

still not even a blink how about

3760

02:41:08,309 --> 02:41:05,359

100 million years

3761

02:41:09,590 --> 02:41:08,319

this is what fermi's paradox is all

3762

02:41:12,230 --> 02:41:09,600

about

3763

02:41:13,590 --> 02:41:12,240

if life is just the right shuffle of the

3764

02:41:16,870 --> 02:41:13,600

cards

3765

02:41:18,630 --> 02:41:16,880

then it should have happened uncountably

3766

02:41:21,750 --> 02:41:18,640

billions of times

3767

02:41:25,750 --> 02:41:21,760

just in our own galaxy

3768

02:41:29,349 --> 02:41:25,760

and those planets have had billions

3769

02:41:33,269 --> 02:41:29,359

of years billions of years

3770

02:41:34,790 --> 02:41:33,279

to move out and colonize all of the

3771

02:41:38,070 --> 02:41:34,800

goldilocks zone

3772

02:41:41,590 --> 02:41:38,080

planets and it hasn't

3773

02:41:45,110 --> 02:41:41,600

happened max's conclusion is that

3774

02:41:47,670 --> 02:41:45,120

it is extremely confident

3775

02:41:50,150 --> 02:41:47,680

yet he is extremely competent on

3776

02:41:53,590 --> 02:41:50,160

strictly statistical grounds

3777

02:41:56,309 --> 02:41:53,600

that there is no intelligent life

3778

02:41:57,110 --> 02:41:56,319

not merely in the milky way but in the

3779

02:42:00,790 --> 02:41:57,120

entire

3780

02:42:04,309 --> 02:42:00,800

observable universe based upon

3781

02:42:07,269 --> 02:42:04,319

the amount of time that all of these

3782

02:42:09,110 --> 02:42:07,279

billions upon billions of correct

3783

02:42:12,550 --> 02:42:09,120

shuffles of the deck

3784

02:42:15,670 --> 02:42:12,560

would have had to get out and colonize

3785

02:42:18,630 --> 02:42:15,680

all the goldilocks zone planets

3786

02:42:19,349 --> 02:42:18,640

it hasn't happened we've been doing seti

3787

02:42:22,389 --> 02:42:19,359

now for

3788

02:42:25,750 --> 02:42:22,399

going on 50 years so we're out

3789

02:42:27,429 --> 02:42:25,760

50 light years in all directions now

3790

02:42:28,950 --> 02:42:27,439

and there ain't a whisper out there

3791

02:42:30,309 --> 02:42:28,960

jimmy

3792

02:42:32,469 --> 02:42:30,319

there's something wrong with that

3793

02:42:36,790 --> 02:42:32,479

assumption that life

3794

02:42:40,870 --> 02:42:36,800

is just the right shuffle of the deck

3795

02:42:43,910 --> 02:42:40,880

my counter to that is

3796

02:42:46,630 --> 02:42:43,920

actually a quite simple one and there's

3797

02:42:48,790 --> 02:42:46,640

a few different ways to look at it

3798

02:42:52,150 --> 02:42:48,800

number one

3799

02:42:56,790 --> 02:42:52,160

it can be as simple as

3800

02:42:59,830 --> 02:42:56,800

uh life out there is

3801

02:43:03,110 --> 02:42:59,840
communicating with each other

3802

02:43:06,710 --> 02:43:03,120
but it's not on our time scale that

3803

02:43:09,990 --> 02:43:06,720
what we are hearing is is noise

3804

02:43:12,710 --> 02:43:10,000
what we are hearing is not visible to

3805

02:43:14,389 --> 02:43:12,720
us and i think that is a very simple way

3806

02:43:15,269 --> 02:43:14,399
to look at it number one if you want to

3807

02:43:18,230 --> 02:43:15,279
say

3808

02:43:18,710 --> 02:43:18,240
why aren't we seeing it but i would

3809

02:43:21,030 --> 02:43:18,720
counter

3810

02:43:22,630 --> 02:43:21,040
that for me but let me finish the

3811

02:43:24,710 --> 02:43:22,640
problem with that argument for me and

3812

02:43:27,750 --> 02:43:24,720
for all similar arguments

3813

02:43:29,110 --> 02:43:27,760

is that it's an argument from absence of

3814

02:43:31,750 --> 02:43:29,120

evidence

3815

02:43:33,670 --> 02:43:31,760

in other words the reason we don't see

3816

02:43:37,349 --> 02:43:33,680

angels

3817

02:43:41,670 --> 02:43:37,359

is because they occupy a

3818

02:43:44,469 --> 02:43:41,680

wavelength beyond our visual

3819

02:43:46,550 --> 02:43:44,479

apparatus okay well i certainly can't

3820

02:43:48,870 --> 02:43:46,560

falsify that

3821

02:43:50,150 --> 02:43:48,880

what i can say is that there is

3822

02:43:53,429 --> 02:43:50,160

absolutely no

3823

02:43:55,510 --> 02:43:53,439

evidence of that and

3824

02:43:57,030 --> 02:43:55,520

in the same way i can certainly agree

3825

02:44:00,150 --> 02:43:57,040

with you that it's it's

3826

02:44:03,510 --> 02:44:00,160

it's possible that

3827

02:44:03,990 --> 02:44:03,520

life is all around us and they are

3828

02:44:07,510 --> 02:44:04,000

hiding

3829

02:44:10,710 --> 02:44:07,520

themselves from our sensors and they

3830

02:44:12,469 --> 02:44:10,720

are treating us as a zoo and you know

3831

02:44:13,830 --> 02:44:12,479

you you can write five great science

3832

02:44:16,870 --> 02:44:13,840

fiction movies about that

3833

02:44:21,110 --> 02:44:16,880

the problem is there's absolutely

3834

02:44:24,150 --> 02:44:21,120

not the slightest bit of evidence

3835

02:44:26,550 --> 02:44:24,160

that that is in fact the case all that

3836

02:44:29,990 --> 02:44:26,560

we know for sure

3837

02:44:33,750 --> 02:44:30,000

is that the assumption that life

3838

02:44:35,910 --> 02:44:33,760

is a correct shuffle of the cards

3839

02:44:38,230 --> 02:44:35,920

means it should be absolutely everywhere

3840

02:44:40,389 --> 02:44:38,240

and at least some of it

3841

02:44:41,429 --> 02:44:40,399

should be strictly statistical

3842

02:44:45,030 --> 02:44:41,439

probabilities

3843

02:44:48,230 --> 02:44:45,040

be somewhat approximately where we are

3844

02:44:49,910 --> 02:44:48,240

or somewhere just beyond where we are

3845

02:44:51,429 --> 02:44:49,920

they should still be dealing with the

3846

02:44:53,269 --> 02:44:51,439

same technological i mean

3847

02:44:55,349 --> 02:44:53,279

look there's only a certain number of

3848

02:44:57,590 --> 02:44:55,359

ways to make semiconductors

3849

02:44:59,190 --> 02:44:57,600

but what you're what you're suggesting

3850

02:45:03,030 --> 02:44:59,200

though um

3851
02:45:05,190 --> 02:45:03,040
is that you have never seen

3852
02:45:06,870 --> 02:45:05,200
or observed something that you can't

3853
02:45:08,790 --> 02:45:06,880
explain

3854
02:45:10,790 --> 02:45:08,800
you haven't had that paradigm shift

3855
02:45:13,110 --> 02:45:10,800
there are many things i can't explain

3856
02:45:14,309 --> 02:45:13,120
what i haven't observed what i have not

3857
02:45:17,590 --> 02:45:14,319
observed

3858
02:45:19,429 --> 02:45:17,600
is the slightest bit of evidence

3859
02:45:20,950 --> 02:45:19,439
that there is another intelligent

3860
02:45:24,790 --> 02:45:20,960
species

3861
02:45:28,950 --> 02:45:24,800
um that that or that

3862
02:45:31,990 --> 02:45:28,960
better said that there is a process

3863
02:45:35,349 --> 02:45:32,000

a law of biology

3864

02:45:40,630 --> 02:45:35,359

in the universe that will

3865

02:45:43,750 --> 02:45:40,640

naturally generate stupendous numbers

3866

02:45:44,309 --> 02:45:43,760

of intelligent species according to the

3867

02:45:47,910 --> 02:45:44,319

same

3868

02:45:52,790 --> 02:45:47,920

laws that generated ours right and that

3869

02:45:55,990 --> 02:45:52,800

this principle will spin off

3870

02:45:57,830 --> 02:45:56,000

at least tens of millions of intelligent

3871

02:46:00,230 --> 02:45:57,840

cultures on the time scale that we are

3872

02:46:02,870 --> 02:46:00,240

talking about just in our own

3873

02:46:03,830 --> 02:46:02,880

little neck of the milky way there's no

3874

02:46:07,670 --> 02:46:03,840

evidence of this

3875

02:46:10,950 --> 02:46:07,680

right that's the case if that's the case

3876

02:46:14,070 --> 02:46:10,960

if that is the case if if you feel

3877

02:46:17,190 --> 02:46:14,080

that we are it

3878

02:46:18,309 --> 02:46:17,200

then why take care of the planet why not

3879

02:46:20,230 --> 02:46:18,319

just party

3880

02:46:22,469 --> 02:46:20,240

there's no reason to meet our space

3881

02:46:23,990 --> 02:46:22,479

brothers so let's just burn this sucker

3882

02:46:28,150 --> 02:46:24,000

down there's no re

3883

02:46:31,750 --> 02:46:28,160

it's a lonely it would seem to me

3884

02:46:33,429 --> 02:46:31,760

that the idea that the thing that gives

3885

02:46:37,110 --> 02:46:33,439

meaning to our existence

3886

02:46:39,830 --> 02:46:37,120

is meeting our space brothers is wrong

3887

02:46:41,030 --> 02:46:39,840

that that is not in fact the meaning of

3888

02:46:45,030 --> 02:46:41,040

our existence

3889

02:46:47,269 --> 02:46:45,040

that the reason that we are here

3890

02:46:48,389 --> 02:46:47,279

and the purpose that we are here to

3891

02:46:51,750 --> 02:46:48,399

fulfill

3892

02:46:53,510 --> 02:46:51,760

is something other than meeting our

3893

02:46:56,630 --> 02:46:53,520

space brothers

3894

02:46:59,590 --> 02:46:56,640

now we know as a matter of fact it's a

3895

02:47:02,870 --> 02:46:59,600

matter of historical fact

3896

02:47:05,110 --> 02:47:02,880

that essentially zero human

3897

02:47:06,469 --> 02:47:05,120

civilizations

3898

02:47:08,790 --> 02:47:06,479

that have reached the stage where

3899

02:47:09,910 --> 02:47:08,800

they've left enough behind that we can

3900

02:47:13,030 --> 02:47:09,920

learn about them

3901
02:47:15,510 --> 02:47:13,040
right have believed that our purpose was

3902
02:47:18,870 --> 02:47:15,520
to meet our space brothers

3903
02:47:21,190 --> 02:47:18,880
that is a quintessentially modern idea

3904
02:47:23,110 --> 02:47:21,200
it is something that only emerges in

3905
02:47:25,830 --> 02:47:23,120
modern civilization

3906
02:47:27,190 --> 02:47:25,840
which has in turn been shaped in its

3907
02:47:30,389 --> 02:47:27,200
beliefs and outlooks by

3908
02:47:33,510 --> 02:47:30,399
science prior to this

3909
02:47:35,670 --> 02:47:33,520
scientific worldview right

3910
02:47:37,910 --> 02:47:35,680
we always understood ourselves to be

3911
02:47:41,030 --> 02:47:37,920
spiritual beings

3912
02:47:42,550 --> 02:47:41,040
in fact the vast majority of every human

3913
02:47:45,830 --> 02:47:42,560

being who ever lived

3914

02:47:46,710 --> 02:47:45,840

christian or otherwise up until the 17th

3915

02:47:49,750 --> 02:47:46,720

century

3916

02:47:50,469 --> 02:47:49,760

believed that the earth was unique and

3917

02:47:54,230 --> 02:47:50,479

indeed

3918

02:47:57,590 --> 02:47:54,240

central in the entire cosmos

3919

02:48:00,630 --> 02:47:57,600

that this was where all the action

3920

02:48:02,150 --> 02:48:00,640

is and the action is not meeting our

3921

02:48:05,590 --> 02:48:02,160

space brothers

3922

02:48:08,150 --> 02:48:05,600

the action is meeting our creator

3923

02:48:08,870 --> 02:48:08,160

this is the old world story that has

3924

02:48:11,910 --> 02:48:08,880

been

3925

02:48:15,110 --> 02:48:11,920

supplanted and overturned

3926

02:48:18,230 --> 02:48:15,120

by the enlightenment scientific myth

3927

02:48:20,870 --> 02:48:18,240

which myth is more true

3928

02:48:22,230 --> 02:48:20,880

which myth is more powerful well that's

3929

02:48:25,190 --> 02:48:22,240

the question

3930

02:48:25,990 --> 02:48:25,200

at this point i would argue and i hope

3931

02:48:28,469 --> 02:48:26,000

i'm not

3932

02:48:30,550 --> 02:48:28,479

i mean i i certainly acknowledge

3933

02:48:31,110 --> 02:48:30,560

completely what you said that max and i

3934

02:48:34,070 --> 02:48:31,120

are in a

3935

02:48:35,830 --> 02:48:34,080

drastic minority here you couldn't find

3936

02:48:37,910 --> 02:48:35,840

five people who agree with this

3937

02:48:39,190 --> 02:48:37,920

you're right about 99 of the people are

3938

02:48:41,269 --> 02:48:39,200

going to agree with you

3939

02:48:42,230 --> 02:48:41,279

you're right about that and that that

3940

02:48:46,870 --> 02:48:42,240

being said

3941

02:48:49,990 --> 02:48:46,880

yes i nonetheless argue

3942

02:48:56,550 --> 02:48:53,349

the lack of any contact the lack of

3943

02:49:00,950 --> 02:48:56,560

any hint of evidence

3944

02:49:04,309 --> 02:49:00,960

for any intelligent civilizations

3945

02:49:08,710 --> 02:49:04,319

tends to suggest

3946

02:49:10,950 --> 02:49:08,720

that the the old world story

3947

02:49:13,429 --> 02:49:10,960

may just prove to have a whole lot more

3948

02:49:16,389 --> 02:49:13,439

meat on its bones

3949

02:49:17,429 --> 02:49:16,399

than uh then would be generally uh

3950

02:49:19,190 --> 02:49:17,439

anticipated

3951

02:49:20,790 --> 02:49:19,200

i'll put it that way yeah i agree with

3952

02:49:24,070 --> 02:49:20,800

that but there's there's

3953

02:49:25,910 --> 02:49:24,080

and this is where this is where

3954

02:49:27,110 --> 02:49:25,920

the line in the sand for me is

3955

02:49:30,469 --> 02:49:27,120

completely

3956

02:49:33,750 --> 02:49:30,479

defined and that is this now rick

3957

02:49:37,030 --> 02:49:33,760

just listen to what i have to say

3958

02:49:37,910 --> 02:49:37,040

i'm not i i'm i'm with this is an actual

3959

02:49:41,830 --> 02:49:37,920

event

3960

02:49:45,110 --> 02:49:41,840

okay i'm with 30 or 40 people

3961

02:49:48,309 --> 02:49:45,120

middle of the day we're up in washington

3962

02:49:50,469 --> 02:49:48,319

middle of the day beautiful blue sky

3963

02:49:51,990 --> 02:49:50,479

we're in front of mount adams which is

3964

02:49:55,110 --> 02:49:52,000

14 miles away

3965

02:49:56,790 --> 02:49:55,120

it's taking up our entire uh

3966

02:49:58,790 --> 02:49:56,800

field of view it's in front of us i'm

3967

02:50:01,510 --> 02:49:58,800

sitting at a picnic table

3968

02:50:02,870 --> 02:50:01,520

and uh and i've got a set of binoculars

3969

02:50:05,190 --> 02:50:02,880

on a tripod

3970

02:50:06,870 --> 02:50:05,200

and i'm looking at the mountain i'm

3971

02:50:08,550 --> 02:50:06,880

looking at the birds i'm looking at the

3972

02:50:10,630 --> 02:50:08,560

peak of the mountain

3973

02:50:12,389 --> 02:50:10,640

and uh it's about three o'clock in the

3974

02:50:13,349 --> 02:50:12,399

afternoon beautiful i'm listening to the

3975

02:50:16,230 --> 02:50:13,359

birds and

3976
02:50:17,269 --> 02:50:16,240
and things and i'm at this moment about

3977
02:50:18,790 --> 02:50:17,279
15 minutes i'm

3978
02:50:20,950 --> 02:50:18,800
looking at the mountain i'm at this

3979
02:50:24,630 --> 02:50:20,960
moment of tranquility

3980
02:50:28,150 --> 02:50:24,640
and at that exact moment of peacefulness

3981
02:50:29,830 --> 02:50:28,160
from behind the mountain which is 14

3982
02:50:35,590 --> 02:50:29,840
miles away

3983
02:50:38,870 --> 02:50:35,600
appears this ginormous

3984
02:50:40,550 --> 02:50:38,880
vertical i'm gonna guess and say 500

3985
02:50:43,910 --> 02:50:40,560
foot tall

3986
02:50:46,950 --> 02:50:43,920
beer can it's black

3987
02:50:49,429 --> 02:50:46,960
it's got a silver circle on the front

3988
02:50:50,070 --> 02:50:49,439

it is traveling from my left to my right

3989

02:50:52,950 --> 02:50:50,080

it's going

3990

02:50:53,510 --> 02:50:52,960

from west to east from behind the

3991

02:50:56,710 --> 02:50:53,520

mountain

3992

02:50:57,590 --> 02:50:56,720

and it is spinning slowly i can see the

3993

02:51:00,550 --> 02:50:57,600

silver

3994

02:51:02,550 --> 02:51:00,560

circle on it turning it's got a little

3995

02:51:03,269 --> 02:51:02,560

silver top little silver bottom but it

3996

02:51:06,630 --> 02:51:03,279

looks like

3997

02:51:07,190 --> 02:51:06,640

the shape of a can and it's traveling

3998

02:51:08,790 --> 02:51:07,200

and

3999

02:51:10,230 --> 02:51:08,800

i don't know where i'm i'm just looking

4000

02:51:14,550 --> 02:51:10,240

at the birds

4001
02:51:18,070 --> 02:51:14,560
and it's 14 miles away i back i scream

4002
02:51:20,309 --> 02:51:18,080
and everybody sees it and as

4003
02:51:21,750 --> 02:51:20,319
it's slowly moving in the sky and it

4004
02:51:22,150 --> 02:51:21,760
looks like we're gonna see it for the

4005
02:51:25,349 --> 02:51:22,160
next

4006
02:51:27,269 --> 02:51:25,359
hour by the speed and it's blue i see

4007
02:51:30,790 --> 02:51:27,279
the sun reflecting off of it

4008
02:51:31,830 --> 02:51:30,800
it's perfectly in focus i can razor

4009
02:51:34,070 --> 02:51:31,840
sharp edges

4010
02:51:35,429 --> 02:51:34,080
it's beautiful it's majestic i jump i

4011
02:51:38,790 --> 02:51:35,439
got a video of this

4012
02:51:40,550 --> 02:51:38,800
i jump up and i'm yelling video video

4013
02:51:43,030 --> 02:51:40,560

video pictures pictures everybody

4014

02:51:44,950 --> 02:51:43,040

look look everybody sees it everybody's

4015

02:51:47,190 --> 02:51:44,960

talking about i come back

4016

02:51:47,990 --> 02:51:47,200

i sit down at the binoculars i look

4017

02:51:51,190 --> 02:51:48,000

through it again

4018

02:51:52,710 --> 02:51:51,200

i see it i then take my eyes off the

4019

02:51:56,790 --> 02:51:52,720

binoculars

4020

02:51:59,030 --> 02:51:56,800

and i'm looking at it with my naked eyes

4021

02:52:00,150 --> 02:51:59,040

and then i go back to the binoculars and

4022

02:52:02,550 --> 02:52:00,160

it's gone

4023

02:52:04,150 --> 02:52:02,560

and i hear everybody so it lasted for

4024

02:52:07,429 --> 02:52:04,160

about 10 or 15 seconds

4025

02:52:09,510 --> 02:52:07,439

i hear everybody yelling it phased out

4026
02:52:11,510 --> 02:52:09,520
it just disappeared and i was like

4027
02:52:12,230 --> 02:52:11,520
that's impossible i come back off and i

4028
02:52:16,550 --> 02:52:12,240
look it's

4029
02:52:19,590 --> 02:52:16,560
gone disappeared out of the sky

4030
02:52:23,830 --> 02:52:19,600
now i ask you

4031
02:52:26,950 --> 02:52:23,840
what did i see it wasn't a helicopter

4032
02:52:28,550 --> 02:52:26,960
it wasn't a balloon it wasn't a plane it

4033
02:52:31,750 --> 02:52:28,560
wasn't a rocket

4034
02:52:32,550 --> 02:52:31,760
it wasn't anything that should be up in

4035
02:52:35,910 --> 02:52:32,560
the sky

4036
02:52:38,870 --> 02:52:35,920
and then disappear in front of everybody

4037
02:52:39,190 --> 02:52:38,880
and you're going to tell me that that

4038
02:52:46,309 --> 02:52:39,200

was

4039

02:52:49,190 --> 02:52:46,319

around in the sky and then

4040

02:52:50,950 --> 02:52:49,200

disappears i didn't see it appear on the

4041

02:52:52,469 --> 02:52:50,960

other side of the mountain by the way

4042

02:52:54,070 --> 02:52:52,479

i was looking at the mountain for 15

4043

02:52:54,870 --> 02:52:54,080

minutes it came out from behind the

4044

02:52:56,710 --> 02:52:54,880

mountain

4045

02:52:58,710 --> 02:52:56,720

i don't know how and then started

4046

02:53:00,469 --> 02:52:58,720

cruising across the sky

4047

02:53:02,230 --> 02:53:00,479

so that tells me i don't know what it

4048

02:53:05,349 --> 02:53:02,240

was but i

4049

02:53:06,630 --> 02:53:05,359

certainly have questions and i know that

4050

02:53:08,309 --> 02:53:06,640

wasn't anything

4051
02:53:10,950 --> 02:53:08,319
that has been flying around in the skies

4052
02:53:12,950 --> 02:53:10,960
or documented by anybody

4053
02:53:14,230 --> 02:53:12,960
so to say that we're alone in the

4054
02:53:17,429 --> 02:53:14,240
universe

4055
02:53:18,950 --> 02:53:17,439
well i don't know was that e.t i don't

4056
02:53:24,309 --> 02:53:18,960
know

4057
02:53:26,150 --> 02:53:24,319
and so to think that we're alone in the

4058
02:53:28,389 --> 02:53:26,160
universe and we're it and i'm seeing

4059
02:53:31,750 --> 02:53:28,399
stuff like that with our friends

4060
02:53:33,190 --> 02:53:31,760
i can't tell my friends ah that was

4061
02:53:35,510 --> 02:53:33,200
nothing

4062
02:53:37,110 --> 02:53:35,520
because that is a life-changing event

4063
02:53:38,790 --> 02:53:37,120

you know it was the middle of the day it

4064

02:53:40,150 --> 02:53:38,800

wasn't at night

4065

02:53:42,309 --> 02:53:40,160

you know it wasn't anything that could

4066

02:53:45,590 --> 02:53:42,319

be questioned

4067

02:53:49,110 --> 02:53:45,600

we all saw it and i don't know yeah

4068

02:53:51,510 --> 02:53:49,120

it's it's a very powerful uh testimony

4069

02:53:53,590 --> 02:53:51,520

yeah there's no doubt as i listen to you

4070

02:53:55,750 --> 02:53:53,600

recount this

4071

02:53:57,510 --> 02:53:55,760

you know i see it i mean this is

4072

02:53:59,670 --> 02:53:57,520

obviously something that uh

4073

02:54:01,670 --> 02:53:59,680

it wasn't a flying saucer i'm not saying

4074

02:54:02,790 --> 02:54:01,680

that right i'm not saying little green

4075

02:54:05,190 --> 02:54:02,800

man i'm not saying that

4076
02:54:05,990 --> 02:54:05,200
i'm not saying and in fact it was the

4077
02:54:08,150 --> 02:54:06,000
opposite

4078
02:54:10,309 --> 02:54:08,160
i'd be fascinated to see the video

4079
02:54:12,389 --> 02:54:10,319
sometime if we ever get a chance to do

4080
02:54:14,070 --> 02:54:12,399
that i would love to see the video

4081
02:54:15,429 --> 02:54:14,080
i don't have an answer that's going to

4082
02:54:20,070 --> 02:54:15,439
satisfy either you

4083
02:54:23,750 --> 02:54:20,080
or me what i will say is this

4084
02:54:27,590 --> 02:54:23,760
eyewitness evidence is evidence

4085
02:54:30,870 --> 02:54:27,600
it is um to simply

4086
02:54:33,670 --> 02:54:30,880
you know flick your wrist and

4087
02:54:36,070 --> 02:54:33,680
oh well you know i mean uh sounds to me

4088
02:54:39,750 --> 02:54:36,080

like you wanted a beer or something

4089

02:54:43,190 --> 02:54:39,760

you know that that's not really adequate

4090

02:54:50,550 --> 02:54:47,030

we must i think

4091

02:54:55,030 --> 02:54:50,560

both recognize

4092

02:54:57,670 --> 02:54:55,040

the power of this experience

4093

02:54:58,630 --> 02:54:57,680

i am perfectly willing to grant that

4094

02:55:01,670 --> 02:54:58,640

this

4095

02:55:05,910 --> 02:55:01,680

actually happened as you described it

4096

02:55:09,510 --> 02:55:05,920

you have witnesses you have video

4097

02:55:13,349 --> 02:55:09,520

um what

4098

02:55:17,429 --> 02:55:13,359

it means what it means in terms

4099

02:55:20,469 --> 02:55:17,439

of a demonstration

4100

02:55:22,630 --> 02:55:20,479

of the existence of intelligent life

4101

02:55:24,550 --> 02:55:22,640

elsewhere in the cosmos

4102

02:55:27,510 --> 02:55:24,560

that's a much different question it's a

4103

02:55:31,910 --> 02:55:27,520

big leap yeah sure yeah it's a big leap

4104

02:55:35,670 --> 02:55:31,920

and and so what i would say is that

4105

02:55:39,349 --> 02:55:35,680

i place a great deal

4106

02:55:44,469 --> 02:55:39,359

of credibility on truthful recounts

4107

02:55:47,670 --> 02:55:44,479

of eye witnesses to me if i

4108

02:55:50,150 --> 02:55:47,680

saw it with my damned eyes i'm going to

4109

02:55:52,790 --> 02:55:50,160

believe my damned eyes

4110

02:55:53,670 --> 02:55:52,800

and if you don't well so much the worst

4111

02:55:56,309 --> 02:55:53,680

for you

4112

02:55:58,070 --> 02:55:56,319

that's the way i am so i certainly can't

4113

02:56:01,590 --> 02:55:58,080

blame you

4114

02:56:02,710 --> 02:56:01,600

for holding to the same uh standard that

4115

02:56:06,469 --> 02:56:02,720

i would hold

4116

02:56:10,309 --> 02:56:06,479

if i saw something with my eyes

4117

02:56:13,750 --> 02:56:10,319

and i am satisfied that this was not

4118

02:56:17,510 --> 02:56:13,760

you know a bit of undigested potato

4119

02:56:18,469 --> 02:56:17,520

but was in fact something in the in the

4120

02:56:24,070 --> 02:56:18,479

world

4121

02:56:25,349 --> 02:56:24,080

now i want you to listen i i just pulled

4122

02:56:29,110 --> 02:56:25,359

up the video

4123

02:56:31,990 --> 02:56:29,120

this uh this is immediately

4124

02:56:32,469 --> 02:56:32,000

after i jumped up and yelled i want you

4125

02:56:39,190 --> 02:56:32,479

to

4126
02:56:42,710 --> 02:56:39,200
excuse

4127
02:56:46,070 --> 02:56:42,720
uh my profanity here we go

4128
02:56:50,710 --> 02:56:46,080
tell me somebody took a picture i

4129
02:56:52,950 --> 02:56:50,720
swear to god i will shoot everybody here

4130
02:56:54,309 --> 02:56:52,960
disappeared now oh no there it is there

4131
02:56:56,710 --> 02:56:54,319
it is i got it i got it

4132
02:56:59,590 --> 02:56:56,720
i got it give us a position man no

4133
02:57:02,070 --> 02:56:59,600
that's uh that's the bird

4134
02:57:04,550 --> 02:57:02,080
no the ufo wasn't a bird no that was

4135
02:57:07,830 --> 02:57:04,560
shimmering that was snowing

4136
02:57:08,150 --> 02:57:07,840
it was it was a ball it was huge okay

4137
02:57:11,349 --> 02:57:08,160
who

4138
02:57:12,790 --> 02:57:11,359

shot it okay now that's the eyewitness

4139

02:57:15,510 --> 02:57:12,800

it was shimmering

4140

02:57:15,990 --> 02:57:15,520

right and earlier if you were listening

4141

02:57:19,510 --> 02:57:16,000

uh

4142

02:57:21,670 --> 02:57:19,520

it was it was spinning right and so

4143

02:57:23,190 --> 02:57:21,680

there it is and then you heard as they

4144

02:57:25,429 --> 02:57:23,200

were watching

4145

02:57:26,469 --> 02:57:25,439

one of them i think this thing was about

4146

02:57:28,710 --> 02:57:26,479

five hundred

4147

02:57:29,990 --> 02:57:28,720

miles away fourteen miles away or two

4148

02:57:31,830 --> 02:57:30,000

miles away

4149

02:57:33,510 --> 02:57:31,840

and you you know you could see it you

4150

02:57:35,349 --> 02:57:33,520

could make it out with the naked eye

4151
02:57:36,710 --> 02:57:35,359
yep you could see it spinning and and

4152
02:57:39,750 --> 02:57:36,720
you heard somebody say

4153
02:57:42,309 --> 02:57:39,760
it just disappeared right and

4154
02:57:42,790 --> 02:57:42,319
and i think it's interesting i'm gonna

4155
02:57:45,670 --> 02:57:42,800
say

4156
02:57:46,950 --> 02:57:45,680
uh like i said it was 14 miles away and

4157
02:57:47,990 --> 02:57:46,960
the way it came out from behind the

4158
02:57:50,150 --> 02:57:48,000
mountain

4159
02:57:51,030 --> 02:57:50,160
um i've looked at a couple of uh still

4160
02:57:54,389 --> 02:57:51,040
images too

4161
02:57:57,510 --> 02:57:54,399
i'm gonna say probably 500 feet tall

4162
02:58:00,469 --> 02:57:57,520
um you know i don't know 100 feet across

4163
02:58:01,190 --> 02:58:00,479

that's the best way i could explain it

4164

02:58:04,469 --> 02:58:01,200

and

4165

02:58:07,269 --> 02:58:04,479

like i said the shape was like like a

4166

02:58:08,389 --> 02:58:07,279

like a like a can you know it was that

4167

02:58:11,110 --> 02:58:08,399

shape it was round

4168

02:58:11,990 --> 02:58:11,120

and it had this silver circle that was

4169

02:58:13,910 --> 02:58:12,000

huge

4170

02:58:15,110 --> 02:58:13,920

that was in the middle of it and you

4171

02:58:18,230 --> 02:58:15,120

could see that

4172

02:58:20,710 --> 02:58:18,240

spinning and shining off of the sun

4173

02:58:22,790 --> 02:58:20,720

every time it did this rotation about

4174

02:58:24,550 --> 02:58:22,800

every four or five seconds you know very

4175

02:58:26,870 --> 02:58:24,560

slow the whole thing was slow

4176
02:58:28,150 --> 02:58:26,880
the rotation was slow it was moving in

4177
02:58:31,349 --> 02:58:28,160
the sky slowly

4178
02:58:33,510 --> 02:58:31,359
and it was still it was razor sharp

4179
02:58:34,870 --> 02:58:33,520
it was crazy man it was crazy i can't

4180
02:58:38,230 --> 02:58:34,880
explain it disappeared

4181
02:58:40,150 --> 02:58:38,240
it just i i didn't see it disappear

4182
02:58:42,309 --> 02:58:40,160
that was the thing i was going between

4183
02:58:44,630 --> 02:58:42,319
naked eye and the binoculars

4184
02:58:45,910 --> 02:58:44,640
and when i came back to the binoculars

4185
02:58:47,750 --> 02:58:45,920
to look through it again that's when

4186
02:58:48,710 --> 02:58:47,760
somebody said it phased out so i missed

4187
02:58:51,190 --> 02:58:48,720
that part

4188
02:58:52,469 --> 02:58:51,200

that's an interesting expression saved

4189

02:58:55,590 --> 02:58:52,479

out that's what they said

4190

02:58:57,349 --> 02:58:55,600

yes that's an interesting expression

4191

02:58:58,710 --> 02:58:57,359

it doesn't say he didn't say it

4192

02:59:02,150 --> 02:58:58,720

disappeared he said

4193

02:59:04,469 --> 02:59:02,160

it phased out yeah yeah like i said

4194

02:59:07,429 --> 02:59:04,479

there was 30 40 people there

4195

02:59:08,389 --> 02:59:07,439

all uh they they got to see it disappear

4196

02:59:12,150 --> 02:59:08,399

i didn't

4197

02:59:17,269 --> 02:59:12,160

well i i i all honor all honor to your

4198

02:59:21,110 --> 02:59:17,279

uh to your uh to your insistence

4199

02:59:24,710 --> 02:59:21,120

that this does not fit um

4200

02:59:26,150 --> 02:59:24,720

it does not obviously and comfortably

4201

02:59:29,030 --> 02:59:26,160

fit

4202

02:59:30,070 --> 02:59:29,040

it was crazy rick hey you know i still

4203

02:59:34,469 --> 02:59:30,080

can't

4204

02:59:37,910 --> 02:59:34,479

to see the video sometime

4205

02:59:40,870 --> 02:59:37,920

i i have never personally had a

4206

02:59:41,990 --> 02:59:40,880

similar experience i've seen a few

4207

02:59:45,590 --> 02:59:42,000

strange things in my

4208

02:59:50,469 --> 02:59:45,600

time but nothing like that

4209

02:59:53,269 --> 02:59:50,479

and i i i have to file this under

4210

02:59:54,950 --> 02:59:53,279

hmm that's right for now and that's why

4211

02:59:57,510 --> 02:59:54,960

you are rick delano

4212

02:59:58,950 --> 02:59:57,520

rick thank you thank you so much for the

4213

03:00:01,269 --> 02:59:58,960

conversation tonight

4214

03:00:02,950 --> 03:00:01,279

man this was a blast jimmy i can't tell

4215

03:00:05,670 --> 03:00:02,960

you how much of a pleasure it was

4216

03:00:07,910 --> 03:00:05,680

thanks for uh for uh spending the

4217

03:00:10,309 --> 03:00:07,920

evening with me and uh i hope uh your

4218

03:00:13,429 --> 03:00:10,319

audience enjoyed it and uh i

4219

03:00:16,150 --> 03:00:13,439

certainly did you're the best and uh

4220

03:00:18,190 --> 03:00:16,160

rick's website uh filosofia

4221

03:00:19,349 --> 03:00:18,200

dot org the links are over at

4222

03:00:22,389 --> 03:00:19,359

jimmychurchradio.com

4223

03:00:23,510 --> 03:00:22,399

the film the amazing quantum realm send

4224

03:00:25,590 --> 03:00:23,520

our people over to

4225

03:00:26,870 --> 03:00:25,600

to to look at this on your site i will

4226
03:00:29,830 --> 03:00:26,880
hook you up rick

4227
03:00:31,110 --> 03:00:29,840
there's oh it's all easy and with that i

4228
03:00:33,830 --> 03:00:31,120
got to get out of here we

4229
03:00:34,870 --> 03:00:33,840
are about to leave the network so let me

4230
03:00:37,269 --> 03:00:34,880
get straight to credits

4231
03:00:39,110 --> 03:00:37,279
thank you so much rick stay right there

4232
03:00:40,309 --> 03:00:39,120
bay to black's executive producer is

4233
03:00:42,630 --> 03:00:40,319
rita kamarian

4234
03:00:43,590 --> 03:00:42,640
show is produced by steve harter gene

4235
03:00:47,269 --> 03:00:43,600
vito mark t

4236
03:00:48,070 --> 03:00:47,279
kovar hilton j palm renee dennis and

4237
03:00:49,990 --> 03:00:48,080
kevin

4238
03:00:53,750 --> 03:00:50,000

webmaster is drew the geek music doug

4239

03:00:55,750 --> 03:00:53,760

aldrich intro spaceboy spaceboymusic.com

4240

03:00:57,429 --> 03:00:55,760

made to black is produced by kjcr for

4241

03:00:59,190 --> 03:00:57,439

the game changer network and syndication

4242

03:01:01,429 --> 03:00:59,200

is kgra

4243

03:01:03,510 --> 03:01:01,439

the planet this broadcast owned a

4244

03:01:04,710 --> 03:01:03,520

copyrighted 2020 by fade to black and

4245

03:01:07,110 --> 03:01:04,720

the game changer network

4246

03:01:08,710 --> 03:01:07,120

inc it cannot be rebroadcast downloaded

4247

03:01:09,429 --> 03:01:08,720

copied or used anywhere in the known

4248

03:01:11,030 --> 03:01:09,439

universe

4249

03:01:12,790 --> 03:01:11,040

without written permission from fade to

4250

03:01:15,190 --> 03:01:12,800

black or the game changer network

4251

03:01:17,269 --> 03:01:15,200

very special thanks to rick delano

4252

03:01:20,070 --> 03:01:17,279

tomorrow night right here steven bassett

4253

03:01:21,670 --> 03:01:20,080

live from washington d.c

4254

03:01:23,269 --> 03:01:21,680

until tomorrow night i'm your host jimmy

4255

03:01:40,420 --> 03:01:23,279

church i want everybody to be