

FADE TO BLACK

WITH JIMMY CHURCH



FADE to BLACK

host: Jimmy Church : w/ Rick DeLano

1
00:02:57,190 --> 00:02:44,930

[Music]

2
00:03:01,509 --> 00:02:58,550

the smoke radio

3
00:03:03,110 --> 00:03:01,519

for the masses headline edition july 8

4
00:03:04,949 --> 00:03:03,120

1947

5
00:03:07,430 --> 00:03:04,959

the army air forces has announced that a

6
00:03:09,110 --> 00:03:07,440

flying disk has been found and is now in

7
00:03:13,830 --> 00:03:09,120

the possession of the army

8
00:03:19,030 --> 00:03:17,030

i occasionally think how quickly our

9
00:03:22,070 --> 00:03:19,040

differences worldwide

10
00:03:22,790 --> 00:03:22,080

would vanish if we were facing an alien

11
00:03:29,270 --> 00:03:22,800

threat

12
00:03:33,190 --> 00:03:31,990

this is fade to black with your host

13
00:03:35,670 --> 00:03:33,200

jimmy church

14

00:03:36,710 --> 00:03:35,680

on the game changer radio network and

15

00:03:41,589 --> 00:03:36,720

kgra

16

00:03:41,599 --> 00:03:50,630

i need your help to get to the year 1985

17

00:04:06,710 --> 00:03:52,630

you're listening to fate to flag with

18

00:04:06,720 --> 00:04:13,110

good evening fade to black

19

00:04:20,630 --> 00:04:17,590

bespoke radio for

20

00:04:22,790 --> 00:04:20,640

the masses

21

00:04:27,189 --> 00:04:22,800

[Music]

22

00:04:28,370 --> 00:04:27,199

yeah how you doing how you doing

23

00:04:33,350 --> 00:04:28,380

yeah let's do this

24

00:04:38,030 --> 00:04:33,360

[Music]

25

00:04:41,350 --> 00:04:38,040

today is tuesday november 17 2020.

26

00:04:45,590 --> 00:04:41,360

322 days into the new year just

27

00:04:47,110 --> 00:04:45,600

44 days left we are live from a bunker

28

00:04:51,110 --> 00:04:47,120

a bunker that is somewhere in the middle

29

00:04:52,629 --> 00:04:51,120

of beautiful downtown burbank california

30

00:04:54,390 --> 00:04:52,639

and i would like to welcome everybody

31

00:04:58,550 --> 00:04:54,400

listening all around the world

32

00:05:00,390 --> 00:04:58,560

all across the united states

33

00:05:02,390 --> 00:05:00,400

hither and tither to and fro back and

34

00:05:03,430 --> 00:05:02,400

forth up and down east and west north

35

00:05:08,550 --> 00:05:03,440

and south far

36

00:05:11,110 --> 00:05:08,560

and near this is fade to black for kjcr

37

00:05:13,270 --> 00:05:11,120

the game changer network and kgra the

38

00:05:16,230 --> 00:05:13,280

planets

39

00:05:18,390 --> 00:05:16,240

i'm your host jimmy church what is

40

00:05:20,070 --> 00:05:18,400

cracking everybody how you doing how are

41

00:05:24,790 --> 00:05:20,080

you doing

42

00:05:26,710 --> 00:05:24,800

all right what a great week on the show

43

00:05:28,550 --> 00:05:26,720

absolutely incredible dave schrader last

44

00:05:31,029 --> 00:05:28,560

night tonight's

45

00:05:33,830 --> 00:05:31,039

rick delano is here first time guest get

46

00:05:35,189 --> 00:05:33,840

ready for that

47

00:05:37,350 --> 00:05:35,199

we're going to be talking about rick's

48

00:05:40,469 --> 00:05:37,360

new film and it's a hit

49

00:05:44,230 --> 00:05:40,479

it's really good it's called

50

00:05:46,870 --> 00:05:44,240

the end of quantum reality

51
00:05:48,469 --> 00:05:46,880
okay now the links for the film and

52
00:05:49,710 --> 00:05:48,479
everything that you need to

53
00:05:52,150 --> 00:05:49,720
see are right there at

54
00:05:52,870 --> 00:05:52,160
jimmychurchradio.com and uh you can go

55
00:05:55,670 --> 00:05:52,880
and click

56
00:05:57,270 --> 00:05:55,680
and and find out how to go and see this

57
00:06:00,150 --> 00:05:57,280
video on demand so it's uh

58
00:06:02,070 --> 00:06:00,160
you know i watched it on amazon and uh

59
00:06:02,710 --> 00:06:02,080
absolutely incredible film i was telling

60
00:06:05,350 --> 00:06:02,720
rick

61
00:06:06,070 --> 00:06:05,360
um earlier today i hope i don't repeat

62
00:06:09,110 --> 00:06:06,080
myself

63
00:06:10,870 --> 00:06:09,120

uh later on in the show but

64

00:06:13,110 --> 00:06:10,880

film pops up it's right there it's a new

65

00:06:13,510 --> 00:06:13,120

release and i'm reading the description

66

00:06:16,550 --> 00:06:13,520

i'm like

67

00:06:20,950 --> 00:06:16,560

what okay

68

00:06:22,390 --> 00:06:20,960

here we go and uh watched the film ended

69

00:06:25,510 --> 00:06:22,400

up watching it twice but

70

00:06:26,309 --> 00:06:25,520

um watching the film and and i want you

71

00:06:29,590 --> 00:06:26,319

to consider

72

00:06:32,950 --> 00:06:29,600

everything that i seem to

73

00:06:36,629 --> 00:06:32,960

repeat on the show over and over

74

00:06:39,749 --> 00:06:36,639

again and i've done it for years

75

00:06:41,189 --> 00:06:39,759

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

76

00:06:42,230 --> 00:06:41,199

going to speak about this in a minute

77

00:06:45,510 --> 00:06:42,240

but one of the things

78

00:06:47,430 --> 00:06:45,520

that is out there and it bothers me is

79

00:06:49,430 --> 00:06:47,440

you have science hardcore science and

80

00:06:53,029 --> 00:06:49,440

you have spirituality and

81

00:06:55,270 --> 00:06:53,039

which is the the majority of the world

82

00:06:57,670 --> 00:06:55,280

right and then you have science and

83

00:07:01,430 --> 00:06:57,680

they're just on a collision course

84

00:07:03,510 --> 00:07:01,440

but you don't see it spoken about

85

00:07:05,189 --> 00:07:03,520

or talked about and and you've got to

86

00:07:07,749 --> 00:07:05,199

see at the end of quantum reality

87

00:07:09,589 --> 00:07:07,759

it's everything we'll be uh speaking

88

00:07:12,469 --> 00:07:09,599

with rick about this later on

89

00:07:13,749 --> 00:07:12,479

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

90

00:07:15,350 --> 00:07:13,759

and uh

91

00:07:17,189 --> 00:07:15,360

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

92

00:07:19,189 --> 00:07:17,199

the journey that has evolved it's

93

00:07:21,510 --> 00:07:19,199

just incredible tomorrow night right

94

00:07:24,469 --> 00:07:21,520

here stephen bassett

95

00:07:25,270 --> 00:07:24,479

stephen bassett is going to discuss the

96

00:07:28,469 --> 00:07:25,280

upcoming

97

00:07:28,870 --> 00:07:28,479

new biden administration it's going to

98

00:07:33,350 --> 00:07:28,880

be

99

00:07:36,070 --> 00:07:33,360

sworn in on january 20th 2021

100

00:07:38,150 --> 00:07:36,080

and what their position on disclosure

101

00:07:38,790 --> 00:07:38,160

and the ufo question will be moving

102

00:07:41,029 --> 00:07:38,800

forward

103

00:07:42,629 --> 00:07:41,039

into 2021 what's going to happen what

104

00:07:45,189 --> 00:07:42,639

does steve think

105

00:07:46,150 --> 00:07:45,199

uh about this very very important

106

00:07:49,430 --> 00:07:46,160

subject steve

107

00:07:53,189 --> 00:07:49,440

of course is live from washington dc

108

00:07:56,710 --> 00:07:53,199

and uh spoke to him over the weekend uh

109

00:07:57,350 --> 00:07:56,720

you know when these uh uh marches were

110

00:08:00,629 --> 00:07:57,360

going on

111

00:08:02,629 --> 00:08:00,639

in washington dc on saturday and he goes

112

00:08:04,950 --> 00:08:02,639

man i'm looking out my window i was like

113

00:08:06,710 --> 00:08:04,960

really i think he i think he might have

114

00:08:08,710 --> 00:08:06,720

ventured out

115

00:08:10,309 --> 00:08:08,720

i'm gonna find out about that tomorrow

116

00:08:12,550 --> 00:08:10,319

night all right so stephen bassett

117

00:08:13,430 --> 00:08:12,560

is here and then of course thursday

118

00:08:15,909 --> 00:08:13,440

night is

119

00:08:16,710 --> 00:08:15,919

fader night with open lines all night

120

00:08:18,869 --> 00:08:16,720

long

121

00:08:19,830 --> 00:08:18,879

all right i told you uh some of the late

122

00:08:21,909 --> 00:08:19,840

breaking news

123

00:08:23,830 --> 00:08:21,919

about billy carson what he's got going

124

00:08:25,909 --> 00:08:23,840

on he's got a new book coming out

125

00:08:27,270 --> 00:08:25,919

uh he's got a remote viewing seminar

126

00:08:30,710 --> 00:08:27,280

coming up

127

00:08:31,029 --> 00:08:30,720

uh he's got a movie uh documentary on

128

00:08:34,310 --> 00:08:31,039

the

129

00:08:35,990 --> 00:08:34,320

movie

130

00:08:37,990 --> 00:08:36,000

and i think i'm gonna be doing the

131

00:08:42,070 --> 00:08:38,000

narration but that's another story

132

00:08:44,949 --> 00:08:42,080

oh did i just did i just spill the beans

133

00:08:45,590 --> 00:08:44,959

on that uh i got a couple of film

134

00:08:47,590 --> 00:08:45,600

projects

135

00:08:48,870 --> 00:08:47,600

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

136

00:08:51,670 --> 00:08:48,880

about yet

137

00:08:53,509 --> 00:08:51,680

i want to tell the world about what's

138

00:08:55,990 --> 00:08:53,519

going on but i can't do it

139

00:08:56,710 --> 00:08:56,000

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

140

00:09:02,949 --> 00:08:56,720

kind of

141

00:09:05,590 --> 00:09:02,959

which now i've done so much of that but

142

00:09:08,150 --> 00:09:05,600

uh you know so you kind of

143

00:09:10,230 --> 00:09:08,160

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

144

00:09:13,509 --> 00:09:10,240

like okay cool been there done that

145

00:09:16,949 --> 00:09:13,519

and then moving into film totally cool

146

00:09:18,710 --> 00:09:16,959

totally totally cool so i'll uh i'll

147

00:09:22,389 --> 00:09:18,720

talk more about it when i can

148

00:09:23,350 --> 00:09:22,399

okay um uh but billy carson forbidden

149

00:09:27,110 --> 00:09:23,360

knowledge dot

150

00:09:30,150 --> 00:09:27,120

tv his new uh internet tv network which

151
00:09:31,110 --> 00:09:30,160
you can go and sign up for and i believe

152
00:09:32,949 --> 00:09:31,120
it's all on

153
00:09:34,230 --> 00:09:32,959
it's on all of the video on demand

154
00:09:36,310 --> 00:09:34,240
platforms now

155
00:09:37,829 --> 00:09:36,320
um but head over to forbidden knowledge

156
00:09:39,670 --> 00:09:37,839
dot tv get signed up

157
00:09:41,350 --> 00:09:39,680
first three days trial membership you

158
00:09:44,630 --> 00:09:41,360
can go and check it out right now

159
00:09:46,230 --> 00:09:44,640
he's got thousands of programs up there

160
00:09:48,310 --> 00:09:46,240
some of them i'm in

161
00:09:49,269 --> 00:09:48,320
yeah so go peep it out check it out let

162
00:09:50,790 --> 00:09:49,279
me know what you think all right

163
00:09:53,670 --> 00:09:50,800

forbidden knowledge dot tv

164

00:09:53,990 --> 00:09:53,680

and of course crystal skulls you know

165

00:09:56,790 --> 00:09:54,000

what

166

00:09:58,790 --> 00:09:56,800

one of the things i like to do every day

167

00:10:01,509 --> 00:09:58,800

i come into the bunker

168

00:10:03,430 --> 00:10:01,519

this is can i just you know one of my

169

00:10:06,790 --> 00:10:03,440

little secret pleasures

170

00:10:09,990 --> 00:10:06,800

is i i go and look at crystal skulls

171

00:10:12,949 --> 00:10:10,000

i go over to carolyn ford's website

172

00:10:14,550 --> 00:10:12,959

and i'm just clicking it is one of the

173

00:10:16,230 --> 00:10:14,560

funnest things you can do just head

174

00:10:19,509 --> 00:10:16,240

straight into her store

175

00:10:21,269 --> 00:10:19,519

and click and she does really

176

00:10:23,430 --> 00:10:21,279

great photography so you get to see

177

00:10:25,750 --> 00:10:23,440

every and her site is so well done

178

00:10:27,590 --> 00:10:25,760

but you get to go and do that and she

179

00:10:28,550 --> 00:10:27,600

has got such a huge inventory and it's

180

00:10:30,150 --> 00:10:28,560

always

181

00:10:31,670 --> 00:10:30,160

being updated it's one of my favorite

182

00:10:33,550 --> 00:10:31,680

things to do so all you have to do is go

183

00:10:34,870 --> 00:10:33,560

to

184

00:10:36,630 --> 00:10:34,880

einsteinthecrystalskull.com the links

185

00:10:38,550 --> 00:10:36,640

are over at jimmychurchradio.com

186

00:10:39,670 --> 00:10:38,560

use the promo code jimmy that's all you

187

00:10:42,870 --> 00:10:39,680

got to do 10

188

00:10:43,590 --> 00:10:42,880

off of your next crystal skull maybe

189

00:10:45,949 --> 00:10:43,600

your first

190

00:10:47,430 --> 00:10:45,959

crystal skull einstein the

191

00:10:49,110 --> 00:10:47,440

crystalskull.com

192

00:10:50,870 --> 00:10:49,120

every time i mention it i always turn

193

00:10:51,750 --> 00:10:50,880

around and go look look look look what

194

00:10:54,470 --> 00:10:51,760

i've got here

195

00:10:55,829 --> 00:10:54,480

one two three four five six seven eight

196

00:10:59,590 --> 00:10:55,839

nine 10 11

197

00:11:04,949 --> 00:10:59,600

12 13 14 15 16 17 18

198

00:11:09,430 --> 00:11:08,069

yeah don't you want one of those

199

00:11:12,949 --> 00:11:09,440

i mean what's a cool one look at this

200

00:11:20,790 --> 00:11:16,630

this his name is anton

201

00:11:24,230 --> 00:11:20,800

look at that i mean right

202

00:11:28,310 --> 00:11:24,240

oh it's just absolutely incredible

203

00:11:28,710 --> 00:11:28,320

you want one of these come on you know

204

00:11:30,630 --> 00:11:28,720

you do

205

00:11:32,230 --> 00:11:30,640

einstein the crystalskull.com follow me

206

00:11:35,590 --> 00:11:32,240

on twitter at

207

00:11:37,509 --> 00:11:35,600

j church radio at j church radio sandbox

208

00:11:38,389 --> 00:11:37,519

is right in front of me i'm watching all

209

00:11:41,990 --> 00:11:38,399

of the posts

210

00:11:45,269 --> 00:11:42,000

i disagree biden will not be sworn

211

00:11:49,350 --> 00:11:45,279

in he is not the president

212

00:11:53,110 --> 00:11:49,360

you go madeline stay the course

213

00:11:55,430 --> 00:11:53,120

stay the course believe believe

214

00:11:59,670 --> 00:11:55,440

[Laughter]

215

00:12:02,069 --> 00:11:59,680

believe i you know hey hey uh

216

00:12:04,230 --> 00:12:02,079

it's it's funny that that whole thing

217

00:12:06,870 --> 00:12:04,240

that's going on right now

218

00:12:08,949 --> 00:12:06,880

is it's just crazy town i made up i

219

00:12:09,590 --> 00:12:08,959

don't do politics on the show but i i

220

00:12:12,870 --> 00:12:09,600

made this

221

00:12:14,870 --> 00:12:12,880

uh statement earlier today and

222

00:12:16,550 --> 00:12:14,880

can i just say something i want

223

00:12:20,389 --> 00:12:16,560

everybody to just listen to me for a

224

00:12:27,350 --> 00:12:23,990

cut the crap out

225

00:12:28,389 --> 00:12:27,360

cut it out i'm an american i was born

226

00:12:30,470 --> 00:12:28,399

here

227

00:12:31,910 --> 00:12:30,480

and i believe in america i believe in

228

00:12:35,350 --> 00:12:31,920

the people that

229

00:12:38,470 --> 00:12:35,360

vote and i believe in the system

230

00:12:41,350 --> 00:12:38,480

i always have and every four

231

00:12:42,629 --> 00:12:41,360

years we go through this drama every

232

00:12:45,350 --> 00:12:42,639

four years

233

00:12:46,710 --> 00:12:45,360

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

234

00:12:49,590 --> 00:12:46,720

prezzo then ah

235

00:12:51,590 --> 00:12:49,600

man we lost i can't stay right we go

236

00:12:53,990 --> 00:12:51,600

through it every four years

237

00:12:55,590 --> 00:12:54,000

every four years and every four years

238

00:12:56,230 --> 00:12:55,600

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

239

00:12:58,310 --> 00:12:56,240

just like

240

00:13:00,310 --> 00:12:58,320

okay all right so we're gonna do this

241

00:13:02,790 --> 00:13:00,320

again in four more years okay

242

00:13:03,910 --> 00:13:02,800

four more years of you know in four more

243

00:13:06,310 --> 00:13:03,920

years

244

00:13:06,949 --> 00:13:06,320

oh man are you kidding me you're voting

245

00:13:09,350 --> 00:13:06,959

for you

246

00:13:11,190 --> 00:13:09,360

you like are you kidding me and we go

247

00:13:12,470 --> 00:13:11,200

through this over and over again but you

248

00:13:14,710 --> 00:13:12,480

know what

249

00:13:15,590 --> 00:13:14,720

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

250

00:13:18,949 --> 00:13:15,600

all americans

251

00:13:22,230 --> 00:13:18,959

and every four years we just

252

00:13:24,389 --> 00:13:22,240

accept it that's what we do so

253

00:13:25,750 --> 00:13:24,399

what i'm gonna go through it again in

254

00:13:31,590 --> 00:13:25,760

four more years

255

00:13:33,269 --> 00:13:31,600

quit stressing out who gives a crap

256

00:13:35,350 --> 00:13:33,279

and i mean you know think about

257

00:13:38,629 --> 00:13:35,360

everything that went down 2016.

258

00:13:40,949 --> 00:13:38,639

right we're still here

259

00:13:42,790 --> 00:13:40,959

we're still you accepted to move on

260

00:13:47,509 --> 00:13:42,800

accepted to move on 2020

261

00:13:49,110 --> 00:13:47,519

accept it and move on that's it

262

00:13:50,629 --> 00:13:49,120

oh man what are you gonna do in four

263

00:13:52,790 --> 00:13:50,639

more years four more years you're gonna

264

00:13:54,230 --> 00:13:52,800

run your life on this get over it we're

265

00:13:56,150 --> 00:13:54,240

americans first

266

00:13:57,829 --> 00:13:56,160

being different is what makes this

267

00:14:00,150 --> 00:13:57,839

country so great

268

00:14:01,350 --> 00:14:00,160

don't let anybody tell you it's us

269

00:14:02,550 --> 00:14:01,360

versus them

270

00:14:05,189 --> 00:14:02,560

because that's somebody that's

271

00:14:06,790 --> 00:14:05,199

un-american wants to divide this country

272

00:14:07,670 --> 00:14:06,800

what do you want to do burn this place

273

00:14:10,949 --> 00:14:07,680

down

274

00:14:13,910 --> 00:14:10,959

is that what you want stop it

275

00:14:16,949 --> 00:14:13,920

bunch of crap just done with it i'm done

276
00:14:20,710 --> 00:14:16,959
with it

277
00:14:24,389 --> 00:14:20,720
i am d-o-n-e

278
00:14:28,310 --> 00:14:24,399
done all right am i clear

279
00:14:30,629 --> 00:14:28,320
fade or not all right

280
00:14:32,710 --> 00:14:30,639
moving on let's go i don't do politics

281
00:14:33,750 --> 00:14:32,720
on the show i do conspiracy of politics

282
00:14:37,350 --> 00:14:33,760
like

283
00:14:40,230 --> 00:14:37,360
that crazy video today of uh

284
00:14:41,670 --> 00:14:40,240
lindsey graham fist bumping kamala

285
00:14:45,269 --> 00:14:41,680
harris

286
00:14:46,389 --> 00:14:45,279
looks like what after all the smack talk

287
00:14:48,230 --> 00:14:46,399
from both of them

288
00:14:49,750 --> 00:14:48,240

right after all that they just walked by

289

00:14:51,670 --> 00:14:49,760

what's up

290

00:14:52,949 --> 00:14:51,680

he passed around the back and that

291

00:14:55,189 --> 00:14:52,959

should tell everybody

292

00:14:57,110 --> 00:14:55,199

everybody out there everybody on the

293

00:15:00,310 --> 00:14:57,120

right talking that smack

294

00:15:05,269 --> 00:15:00,320

everybody on the left talking that smack

295

00:15:05,279 --> 00:15:09,829

it's what they're both traders

296

00:15:17,350 --> 00:15:13,670

oh man you gotta love it uh

297

00:15:20,710 --> 00:15:17,360

okay all right

298

00:15:23,430 --> 00:15:20,720

where am i at well whoever it is

299

00:15:26,389 --> 00:15:23,440

i hope they focus on the damn virus yeah

300

00:15:28,389 --> 00:15:26,399

you're right about that terror uh we got

301
00:15:31,590 --> 00:15:28,399
we got issues

302
00:15:34,949 --> 00:15:31,600
health

303
00:15:37,990 --> 00:15:34,959
family you know uh i was um

304
00:15:42,069 --> 00:15:38,000
you know what talking about a conspiracy

305
00:15:45,269 --> 00:15:42,079
i went through i did uh

306
00:15:48,389 --> 00:15:45,279
i don't know 15 years ago 14 years ago

307
00:15:51,110 --> 00:15:48,399
i went back to school uh for for

308
00:15:52,829 --> 00:15:51,120
broadcast news sports journalism

309
00:15:55,030 --> 00:15:52,839
i went back to school cost me a lot of

310
00:15:58,710 --> 00:15:55,040
money and

311
00:16:01,030 --> 00:15:58,720
uh if i

312
00:16:02,629 --> 00:16:01,040
right now okay we have two daughters one

313
00:16:05,430 --> 00:16:02,639

is still in college one just

314

00:16:06,069 --> 00:16:05,440

graduated and is in in you know out

315

00:16:08,470 --> 00:16:06,079

there doing

316

00:16:09,829 --> 00:16:08,480

her thing now uh both are the same age

317

00:16:13,350 --> 00:16:09,839

one is still in college

318

00:16:15,990 --> 00:16:13,360

let me tell you something if i had

319

00:16:18,150 --> 00:16:16,000

a child right now that had a student

320

00:16:20,150 --> 00:16:18,160

loan especially one that i signed on

321

00:16:22,069 --> 00:16:20,160

i'm talking about the millions of

322

00:16:25,509 --> 00:16:22,079

families across this country

323

00:16:27,829 --> 00:16:25,519

and you're signing off you know 35 grand

324

00:16:30,870 --> 00:16:27,839

a year 40 grand a year

325

00:16:34,389 --> 00:16:30,880

50 grand a year whatever that number is

326

00:16:37,590 --> 00:16:34,399

high interest rates and your student

327

00:16:39,030 --> 00:16:37,600

your daughter your son hasn't been in

328

00:16:41,670 --> 00:16:39,040

college

329

00:16:43,670 --> 00:16:41,680

because of coronavirus and those loans

330

00:16:46,870 --> 00:16:43,680

are coming due

331

00:16:49,910 --> 00:16:46,880

ah no it don't work that way

332

00:16:51,189 --> 00:16:49,920

i'm not spending 30 grand a year for

333

00:16:55,030 --> 00:16:51,199

them to

334

00:17:01,509 --> 00:16:58,310

it's like phoenix university

335

00:17:02,310 --> 00:17:01,519

god uh is that what it's called what was

336

00:17:05,429 --> 00:17:02,320

that what's that

337

00:17:09,029 --> 00:17:05,439

online you buy your diploma college

338

00:17:09,909 --> 00:17:09,039

whatever it is so something needs to be

339

00:17:13,189 --> 00:17:09,919

done about that

340

00:17:14,230 --> 00:17:13,199

that that i want to hear somebody step

341

00:17:17,590 --> 00:17:14,240

up and go

342

00:17:19,429 --> 00:17:17,600

okay we recognize this that's a

343

00:17:21,750 --> 00:17:19,439

conspiracy man

344

00:17:23,110 --> 00:17:21,760

that's a that's a conspiracy that is

345

00:17:26,470 --> 00:17:23,120

just breaking the law

346

00:17:28,230 --> 00:17:26,480

stealing money that's what that is

347

00:17:29,510 --> 00:17:28,240

all right moving on where am i let's get

348

00:17:30,470 --> 00:17:29,520

to the breaking news the world of

349

00:17:35,110 --> 00:17:30,480

minerals

350

00:17:38,870 --> 00:17:35,120

these things right here the world

351
00:17:41,830 --> 00:17:38,880
of minerals just got it as wild as

352
00:17:43,750 --> 00:17:41,840
the world of animals because they do

353
00:17:46,830 --> 00:17:43,760
discover new stuff once in a while

354
00:17:49,830 --> 00:17:46,840
and they just did a research team led by

355
00:17:52,950 --> 00:17:49,840
crystallographer there was such a thing

356
00:17:53,750 --> 00:17:52,960
stanislav affilitov at st petersburg

357
00:17:56,549 --> 00:17:53,760
university

358
00:17:57,909 --> 00:17:56,559
in russia found a new entry into the

359
00:18:01,909 --> 00:17:57,919
world of minerals and they

360
00:18:04,470 --> 00:18:01,919
are calling it petrovite

361
00:18:06,390 --> 00:18:04,480
the bright blue mineral it's gorgeous by

362
00:18:08,630 --> 00:18:06,400
the way it's kind of like they're saying

363
00:18:11,669 --> 00:18:08,640

it's bright blue i'm going

364

00:18:14,549 --> 00:18:11,679

like seafoam green sky blue

365

00:18:14,870 --> 00:18:14,559

like right in there the images that i've

366

00:18:17,510 --> 00:18:14,880

seen

367

00:18:19,909 --> 00:18:17,520

are very very cool it comes from a

368

00:18:21,110 --> 00:18:19,919

volcanic landscape formed by major

369

00:18:25,029 --> 00:18:21,120

eruptions

370

00:18:28,070 --> 00:18:25,039

in the late 1970s and once again in the

371

00:18:31,190 --> 00:18:28,080

2010s in the kamchatka peninsula

372

00:18:33,270 --> 00:18:31,200

of russia the mineral is named for

373

00:18:35,270 --> 00:18:33,280

another saint petersburg university

374

00:18:37,990 --> 00:18:35,280

crystallographer his name is tomas

375

00:18:39,510 --> 00:18:38,000

petrov the team has just published a

376

00:18:42,950 --> 00:18:39,520

study on petrovite

377

00:18:45,990 --> 00:18:42,960

in the journal of uh uh

378

00:18:49,190 --> 00:18:46,000

uh mineralogical magazine

379

00:18:51,909 --> 00:18:49,200

say that ten times there you go

380

00:18:53,190 --> 00:18:51,919

it's really cool maybe gotta talk to

381

00:18:55,750 --> 00:18:53,200

carolyn ford

382

00:18:57,270 --> 00:18:55,760

get me a petrov hey there it is right

383

00:19:00,470 --> 00:18:57,280

there look at that

384

00:19:01,190 --> 00:19:00,480

see am i wrong about the color it's kind

385

00:19:03,830 --> 00:19:01,200

of like

386

00:19:06,630 --> 00:19:03,840

seafoam green it's the color of that

387

00:19:09,110 --> 00:19:06,640

guitar right there that's sea foam green

388

00:19:10,950 --> 00:19:09,120

it's exactly the color yeah it's not sky

389

00:19:12,789 --> 00:19:10,960

blue sea foam green

390

00:19:15,350 --> 00:19:12,799

i want one of those i want a crystal

391

00:19:18,630 --> 00:19:15,360

skull i gotta talk to uh

392

00:19:21,750 --> 00:19:18,640

carolyn ford petrovite

393

00:19:25,430 --> 00:19:21,760

petrovite all right where

394

00:19:28,470 --> 00:19:25,440

am i at uh let's see oh

395

00:19:30,950 --> 00:19:28,480

oh i talked to rita about this we are

396

00:19:32,310 --> 00:19:30,960

shopping for telescopes right now i

397

00:19:33,909 --> 00:19:32,320

don't want to spend a whole lot couple

398

00:19:34,870 --> 00:19:33,919

of hundred bucks you know no big deal

399

00:19:36,230 --> 00:19:34,880

just something

400

00:19:37,909 --> 00:19:36,240

to check out you know because we're in

401
00:19:39,590 --> 00:19:37,919
the backyard we're looking and we you

402
00:19:41,909 --> 00:19:39,600
know just just get something

403
00:19:43,029 --> 00:19:41,919
not gonna spend a ton of money on it but

404
00:19:46,230 --> 00:19:43,039
uh this

405
00:19:50,150 --> 00:19:46,240
week you will be able to

406
00:19:50,870 --> 00:19:50,160
see seven planets at various points in

407
00:19:53,669 --> 00:19:50,880
the sky

408
00:19:54,870 --> 00:19:53,679
at the same time venus and mercury i'm

409
00:19:56,710 --> 00:19:54,880
talking about in the same day

410
00:19:58,230 --> 00:19:56,720
venus and mercury are bright enough to

411
00:20:01,350 --> 00:19:58,240
see in the mornings while

412
00:20:04,870 --> 00:20:01,360
mars jupiter neptune and saturn will be

413
00:20:08,789 --> 00:20:04,880

seen at night and there is rumors that

414

00:20:11,830 --> 00:20:08,799

uranus say it as you will will also

415

00:20:12,310 --> 00:20:11,840

be visible all right all right now uh

416

00:20:15,190 --> 00:20:12,320

earth

417

00:20:17,430 --> 00:20:15,200

sky i use that website published a guide

418

00:20:19,590 --> 00:20:17,440

to viewing all of the planets

419

00:20:22,870 --> 00:20:19,600

on their website let's get the show

420

00:20:27,029 --> 00:20:22,880

cracking happy birthday to today

421

00:20:30,070 --> 00:20:27,039

martin scorsese today

422

00:20:32,549 --> 00:20:30,080

78 man

423

00:20:35,750 --> 00:20:32,559

too many great films yeah just just too

424

00:20:37,510 --> 00:20:35,760

many that's it martin scorsese today 78

425

00:20:42,470 --> 00:20:37,520

danny devito

426
00:20:44,549 --> 00:20:42,480
today 76 gets shorty

427
00:20:46,710 --> 00:20:44,559
one flew over the cuckoo's nest that's

428
00:20:50,549 --> 00:20:46,720
pretty good too

429
00:20:53,830 --> 00:20:50,559
gordon lightfoot today is 82.

430
00:20:56,390 --> 00:20:53,840
and and today so i went

431
00:20:57,669 --> 00:20:56,400
i had to go through my gordon lightfoot

432
00:21:01,350 --> 00:20:57,679
song list

433
00:21:04,390 --> 00:21:01,360
if you could read my mind right 1970

434
00:21:07,830 --> 00:21:04,400
sundown huh right

435
00:21:10,149 --> 00:21:07,840
carefree highway toe tapper

436
00:21:11,029 --> 00:21:10,159
rainy day people that's right and of

437
00:21:13,510 --> 00:21:11,039
course

438
00:21:15,830 --> 00:21:13,520

the wreck of the edmund fitzgerald happy

439

00:21:17,830 --> 00:21:15,840

birthday today one of canada's finest

440

00:21:18,870 --> 00:21:17,840

gordon lightfoot good documentary out

441

00:21:21,510 --> 00:21:18,880

right now

442

00:21:22,470 --> 00:21:21,520

with gordon my dead guy's birthday today

443

00:21:25,909 --> 00:21:22,480

jeff buckley

444

00:21:29,190 --> 00:21:25,919

but i have to

445

00:21:31,110 --> 00:21:29,200

1966 to 1997 died at the age of 30.

446

00:21:32,630 --> 00:21:31,120

of course jeff was an american singer

447

00:21:34,630 --> 00:21:32,640

songwriter and guitarist

448

00:21:36,470 --> 00:21:34,640

after a decade as a session guitarist

449

00:21:38,789 --> 00:21:36,480

here in los angeles

450

00:21:41,029 --> 00:21:38,799

bec buckley uh amassed a following in

451
00:21:43,270 --> 00:21:41,039
the early 1990s by playing cover songs

452
00:21:46,070 --> 00:21:43,280
at venues in manhattan's east

453
00:21:47,590 --> 00:21:46,080
village and recorded what would be his

454
00:21:51,110 --> 00:21:47,600
only studio album

455
00:21:53,190 --> 00:21:51,120
grace in 1994.

456
00:21:54,470 --> 00:21:53,200
jeff's cover of leonard cohen's song

457
00:21:56,710 --> 00:21:54,480
hallelujah

458
00:21:58,390 --> 00:21:56,720
went number one on billboard's hot

459
00:22:01,669 --> 00:21:58,400
digital songs in

460
00:22:05,350 --> 00:22:01,679
march 2008 and reached number two

461
00:22:09,510 --> 00:22:05,360
in the uk singles chart that december 11

462
00:22:11,430 --> 00:22:09,520
years after his death on may 29 1997

463
00:22:12,710 --> 00:22:11,440

while awaiting the arrival of his band

464

00:22:15,510 --> 00:22:12,720

from new york

465

00:22:16,149 --> 00:22:15,520

jeff drowned during a spontaneous

466

00:22:19,510 --> 00:22:16,159

evening

467

00:22:21,029 --> 00:22:19,520

swim fully clothed in the mississippi

468

00:22:22,549 --> 00:22:21,039

river in memphis

469

00:22:24,789 --> 00:22:22,559

he was caught in the wake of a passing

470

00:22:28,310 --> 00:22:24,799

boat and his body was found

471

00:22:32,669 --> 00:22:28,320

a week later on june 4th he was just

472

00:22:35,110 --> 00:22:32,679

30 years old on this day in history

473

00:22:37,830 --> 00:22:35,120

1558

474

00:22:39,590 --> 00:22:37,840

queen mary the first the monarch of

475

00:22:43,510 --> 00:22:39,600

england and ireland

476
00:22:46,950 --> 00:22:43,520
since 1553 after five years dies

477
00:22:47,990 --> 00:22:46,960
and is succeeded by her 25 year old half

478
00:22:51,110 --> 00:22:48,000
sister

479
00:22:56,390 --> 00:22:51,120
elizabeth elizabeth ended up ruling

480
00:23:00,390 --> 00:22:56,400
for 44 years fader fact okay

481
00:23:00,400 --> 00:23:04,950
marshmallows

482
00:23:12,950 --> 00:23:09,669
that's the fader fact

483
00:23:16,310 --> 00:23:12,960
okay marshmallows

484
00:23:19,510 --> 00:23:16,320
invented originated in

485
00:23:20,149 --> 00:23:19,520
ancient egypt that's right they used

486
00:23:23,350 --> 00:23:20,159
them

487
00:23:25,270 --> 00:23:23,360
to build the pyramids it's a revolution

488
00:23:26,070 --> 00:23:25,280

i got a new documentary coming out here

489

00:23:29,990 --> 00:23:26,080

very soon

490

00:23:33,190 --> 00:23:30,000

marshmallows built the pyramids

491

00:23:36,310 --> 00:23:33,200

that's right egyptian would use this

492

00:23:40,310 --> 00:23:36,320

listen to me would use the mallow plant

493

00:23:43,430 --> 00:23:40,320

that grew in marshes right to create

494

00:23:44,950 --> 00:23:43,440

candy to soothe sore throats

495

00:23:47,029 --> 00:23:44,960

the roots of the mallow plant would

496

00:23:49,190 --> 00:23:47,039

create a gooey substance that was boiled

497

00:23:53,430 --> 00:23:49,200

and mixed with honey

498

00:23:54,870 --> 00:23:53,440

and they created marshmallows

499

00:23:57,909 --> 00:23:54,880

and that's a fact then they built the

500

00:24:01,590 --> 00:23:57,919

pyramids no sore throats allowed

501
00:24:03,590 --> 00:24:01,600
you must keep slaving marshmallows

502
00:24:05,029 --> 00:24:03,600
tonight very special guest rick delano's

503
00:24:05,669 --> 00:24:05,039
here we're talking about his new film

504
00:24:07,830 --> 00:24:05,679
the end

505
00:24:08,909 --> 00:24:07,840
of quantum reality the links for

506
00:24:10,149 --> 00:24:08,919
everything are over at

507
00:24:13,350 --> 00:24:10,159
jimmychurchradio.com

508
00:24:15,110 --> 00:24:13,360
the film is amazing

509
00:24:17,669 --> 00:24:15,120
and i want to talk about that right now

510
00:24:25,750 --> 00:24:17,679
as i hit this

511
00:24:29,269 --> 00:24:27,590
i want to go back to my comment last

512
00:24:32,070 --> 00:24:29,279
night

513
00:24:34,070 --> 00:24:32,080

that i've made many times on the show in

514

00:24:37,590 --> 00:24:34,080

the past and that is

515

00:24:40,950 --> 00:24:37,600

quoting myself the most spiritual person

516

00:24:43,430 --> 00:24:40,960

in the world is the physicist when the

517

00:24:47,669 --> 00:24:43,440

plane is going down

518

00:24:51,269 --> 00:24:47,679

end quote go ahead quote me it's a fact

519

00:24:56,950 --> 00:24:53,110

there is more to this statement than

520

00:25:04,070 --> 00:25:00,149

first off science

521

00:25:07,190 --> 00:25:04,080

to me is one of the coolest things ever

522

00:25:10,630 --> 00:25:07,200

seriously pure

523

00:25:14,950 --> 00:25:10,640

hardcore science

524

00:25:18,390 --> 00:25:14,960

i love it and then you have spirituality

525

00:25:22,549 --> 00:25:18,400

in any form to me is also

526

00:25:25,590 --> 00:25:22,559

cool and all of it i wonder and ponder

527

00:25:28,710 --> 00:25:25,600

the significance of it all

528

00:25:32,710 --> 00:25:28,720

i do it's absolutely the best

529

00:25:35,029 --> 00:25:32,720

the two if you think about it

530

00:25:37,669 --> 00:25:35,039

although clearly defined by so many with

531

00:25:42,149 --> 00:25:37,679

the line in the sand drawn

532

00:25:44,630 --> 00:25:42,159

the two totally exist side by side and i

533

00:25:48,390 --> 00:25:44,640

don't have a problem with it

534

00:25:49,269 --> 00:25:48,400

so why do so many the vast majority of

535

00:25:52,230 --> 00:25:49,279

scientists

536

00:25:53,350 --> 00:25:52,240

absolutely quiver shake and are visibly

537

00:25:54,830 --> 00:25:53,360

negative

538

00:25:56,710 --> 00:25:54,840

when it comes to the question of

539

00:26:01,269 --> 00:25:56,720

spirituality and or

540

00:26:04,390 --> 00:26:01,279

consciousness they freak out

541

00:26:07,590 --> 00:26:04,400

personally i don't get it

542

00:26:11,750 --> 00:26:07,600

it's so easy for me to understand both

543

00:26:13,190 --> 00:26:11,760

and and i see where they totally fit

544

00:26:17,110 --> 00:26:13,200

together

545

00:26:19,350 --> 00:26:17,120

i get it so if i can do it

546

00:26:20,149 --> 00:26:19,360

why doesn't the scientific community

547

00:26:24,149 --> 00:26:20,159

have the same

548

00:26:27,990 --> 00:26:24,159

open mind you see isaac newton

549

00:26:29,990 --> 00:26:28,000

case in point one of the most undisputed

550

00:26:32,870 --> 00:26:30,000

geniuses in history

551
00:26:33,269 --> 00:26:32,880
whose theories on gravity are not only

552
00:26:36,789 --> 00:26:33,279
in

553
00:26:39,269 --> 00:26:36,799
use today are also some of the most

554
00:26:42,470 --> 00:26:39,279
quoted in science

555
00:26:44,950 --> 00:26:42,480
dude was one of the most spiritual and

556
00:26:46,149 --> 00:26:44,960
god-fearing men since the beginning of

557
00:26:49,430 --> 00:26:46,159
time

558
00:26:53,830 --> 00:26:49,440
and nobody has an issue with it

559
00:26:57,269 --> 00:26:53,840
i don't get it

560
00:26:59,669 --> 00:26:57,279
you see all of science is nothing more

561
00:27:01,430 --> 00:26:59,679
than a series of thinking outside the

562
00:27:05,510 --> 00:27:01,440
box

563
00:27:08,950 --> 00:27:05,520

presenting a theory testing improving

564

00:27:10,390 --> 00:27:08,960

and then correcting it over and over

565

00:27:12,390 --> 00:27:10,400

again

566

00:27:13,750 --> 00:27:12,400

and then correcting the over and overs

567

00:27:18,070 --> 00:27:13,760

that's what it is

568

00:27:21,350 --> 00:27:20,630

real science is about thinking or

569

00:27:24,310 --> 00:27:21,360

dreaming

570

00:27:25,350 --> 00:27:24,320

about something crazy maybe it's

571

00:27:28,630 --> 00:27:25,360

groundbreaking

572

00:27:30,950 --> 00:27:28,640

it's certainly different and then trying

573

00:27:35,430 --> 00:27:30,960

to figure it out

574

00:27:41,029 --> 00:27:35,440

that's it right isn't the spiritual

575

00:27:41,039 --> 00:27:44,310

simply stated

576

00:27:47,590 --> 00:27:46,310

i can listen to a physicist any

577

00:27:52,230 --> 00:27:47,600

physicist

578

00:27:54,149 --> 00:27:52,240

hours and hours about

579

00:27:56,070 --> 00:27:54,159

the multiverse and time travel and

580

00:27:59,110 --> 00:27:56,080

entanglement and gravity waves and

581

00:28:00,950 --> 00:27:59,120

extraterrestrial life in the big bang

582

00:28:02,549 --> 00:28:00,960

right and they seem to have all the

583

00:28:05,750 --> 00:28:02,559

answers

584

00:28:06,710 --> 00:28:05,760

and that's cool and i love it but when

585

00:28:09,350 --> 00:28:06,720

the question

586

00:28:10,549 --> 00:28:09,360

the real question that is on everybody's

587

00:28:14,230 --> 00:28:10,559

mind comes up

588

00:28:18,310 --> 00:28:14,240

right which is okay that's fine

589

00:28:21,669 --> 00:28:18,320

uh but what is consciousness right

590

00:28:23,909 --> 00:28:21,679

and they just shut down and their answer

591

00:28:25,110 --> 00:28:23,919

is always the same though you know smug

592

00:28:28,830 --> 00:28:25,120

you know great question

593

00:28:30,230 --> 00:28:28,840

i don't know but it's all probably

594

00:28:33,830 --> 00:28:30,240

chemistry

595

00:28:36,389 --> 00:28:33,840

they can't explain how they

596

00:28:38,710 --> 00:28:36,399

are able to think how to speak how to

597

00:28:43,430 --> 00:28:41,510

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

598

00:28:46,549 --> 00:28:43,440

to cross

599

00:28:49,029 --> 00:28:46,559

personally i don't know why

600

00:28:50,630 --> 00:28:49,039

i'll never forget i've said this so many

601
00:28:53,750 --> 00:28:50,640
times but it's true because i

602
00:28:56,310 --> 00:28:53,760
i respect sean carroll

603
00:28:58,149 --> 00:28:56,320
all right even when you know i wrote he

604
00:29:00,789 --> 00:28:58,159
wrote me back and said you know i'm uh

605
00:29:02,630 --> 00:29:00,799
just uh too busy to do this show

606
00:29:05,269 --> 00:29:02,640
uh you know get a hold of me in six

607
00:29:08,710 --> 00:29:05,279
months two days later he's on rogan

608
00:29:10,470 --> 00:29:08,720
you know whatever but anyway

609
00:29:12,070 --> 00:29:10,480
i'll never forget when sean carroll was

610
00:29:14,310 --> 00:29:12,080
asked the question

611
00:29:15,350 --> 00:29:14,320
do you believe in ghosts or life after

612
00:29:18,710 --> 00:29:15,360
death

613
00:29:22,230 --> 00:29:18,720

and his answer quote

614

00:29:25,029 --> 00:29:22,240

right i don't have time for such things

615

00:29:28,710 --> 00:29:25,039

i think about reality i spend my days

616

00:29:31,110 --> 00:29:28,720

working on numbers and equations

617

00:29:32,149 --> 00:29:31,120

and you see his words were measured

618

00:29:34,789 --> 00:29:32,159

almost too

619

00:29:36,950 --> 00:29:34,799

prepared and it made me wonder if old

620

00:29:37,669 --> 00:29:36,960

sean is laying awake at night in his bed

621

00:29:39,430 --> 00:29:37,679

you know just

622

00:29:43,990 --> 00:29:39,440

just head on the pillow going you know

623

00:29:50,070 --> 00:29:47,990

he has to he's too smart

624

00:29:51,830 --> 00:29:50,080

now putting consciousness to the side

625

00:29:53,909 --> 00:29:51,840

for a moment there's another piece to

626
00:29:56,070 --> 00:29:53,919
this puzzle that has to be discussed and

627
00:29:59,029 --> 00:29:56,080
it is this

628
00:30:00,389 --> 00:29:59,039
there are only so many particles so many

629
00:30:03,029 --> 00:30:00,399
chemicals so many gases

630
00:30:04,470 --> 00:30:03,039
and and such throughout the universe and

631
00:30:07,590 --> 00:30:04,480
beyond that

632
00:30:10,230 --> 00:30:07,600
there are only so many ways that

633
00:30:10,630 --> 00:30:10,240
they combine it's a numbers game it's

634
00:30:13,750 --> 00:30:10,640
not

635
00:30:16,870 --> 00:30:13,760
infinite but somehow

636
00:30:17,750 --> 00:30:16,880
the basic of the basics i'm talking

637
00:30:21,269 --> 00:30:17,760
about

638
00:30:24,710 --> 00:30:21,279

amino acids carbon water

639

00:30:28,710 --> 00:30:24,720

have learned to combine into rna

640

00:30:31,029 --> 00:30:28,720

and dna life

641

00:30:31,830 --> 00:30:31,039

you see you build a machine to do

642

00:30:34,470 --> 00:30:31,840

something

643

00:30:36,789 --> 00:30:34,480

it works until it breaks you fix it or

644

00:30:37,990 --> 00:30:36,799

throw it away but it ain't gonna fix

645

00:30:41,510 --> 00:30:38,000

itself

646

00:30:43,510 --> 00:30:41,520

the cells in our body or any living

647

00:30:46,630 --> 00:30:43,520

thing for that matter

648

00:30:47,190 --> 00:30:46,640

they repair they fix they change they

649

00:30:49,990 --> 00:30:47,200

modify

650

00:30:51,110 --> 00:30:50,000

and they do whatever it takes to survive

651
00:30:54,230 --> 00:30:51,120
trillions of

652
00:30:57,269 --> 00:30:54,240
times per second of every day

653
00:31:00,789 --> 00:30:57,279
of every year in the body

654
00:31:04,310 --> 00:31:00,799
that makes up you

655
00:31:07,509 --> 00:31:04,320
or your dog a tree in your front yard

656
00:31:11,430 --> 00:31:07,519
and they do this non-stop like magic

657
00:31:15,029 --> 00:31:11,440
anybody can tell me right now how the f

658
00:31:15,909 --> 00:31:15,039
this is possible right i'll send you a

659
00:31:19,190 --> 00:31:15,919
t-shirt

660
00:31:22,310 --> 00:31:19,200
i just want to know a scientist

661
00:31:24,230 --> 00:31:22,320
a physicist any of them will answer this

662
00:31:27,350 --> 00:31:24,240
with

663
00:31:32,070 --> 00:31:27,360

it just happens man it's chemistry

664

00:31:34,789 --> 00:31:32,080

that's it so in closing

665

00:31:36,950 --> 00:31:34,799

if it's really that simple where

666

00:31:40,070 --> 00:31:36,960

particles and acids are just going to

667

00:31:43,590 --> 00:31:40,080

bump into each other anywhere they can

668

00:31:46,070 --> 00:31:43,600

and life just happens well

669

00:31:48,470 --> 00:31:46,080

it's got to be going on everywhere all

670

00:31:51,509 --> 00:31:48,480

the time throughout the universe

671

00:31:52,789 --> 00:31:51,519

something this cool and while easy is

672

00:31:54,950 --> 00:31:52,799

one of the most complex

673

00:31:56,789 --> 00:31:54,960

things to have been engineered and

674

00:31:59,590 --> 00:31:56,799

designed

675

00:32:00,310 --> 00:31:59,600

and it wasn't by accident somebody did

676

00:32:03,669 --> 00:32:00,320

it

677

00:32:04,470 --> 00:32:03,679

and that is what science needs to figure

678

00:32:06,389 --> 00:32:04,480

out

679

00:32:09,029 --> 00:32:06,399

look i don't have all the answers but

680

00:32:10,789 --> 00:32:09,039

i'm curious enough to ask the questions

681

00:32:12,230 --> 00:32:10,799

and right now we need to have some

682

00:32:15,190 --> 00:32:12,240

physicists step

683

00:32:16,870 --> 00:32:15,200

up to the plate and take a swing

684

00:32:18,870 --> 00:32:16,880

seriously

685

00:32:19,909 --> 00:32:18,880

i'm your host jimmy church this is fade

686

00:32:22,070 --> 00:32:19,919

to black tonight

687

00:32:23,909 --> 00:32:22,080

rick delano is here we're talking about

688

00:32:26,470 --> 00:32:23,919

his new film

689

00:32:28,149 --> 00:32:26,480

the end of quantum reality tomorrow

690

00:32:29,509 --> 00:32:28,159

night right here stephen bassett

691

00:32:32,389 --> 00:32:29,519

we're going to be discussing the

692

00:32:34,070 --> 00:32:32,399

upcoming new biden administration

693

00:32:36,710 --> 00:32:34,080

and their position on disclosure in the

694

00:32:39,350 --> 00:32:36,720

ufo question heading into 2021

695

00:32:39,990 --> 00:32:39,360

thursday night is fader night with open

696

00:32:41,669 --> 00:32:40,000

lines

697

00:32:43,590 --> 00:32:41,679

all night long i'm your host jimmy

698

00:32:45,509 --> 00:32:43,600

church i'll be right back after this

699

00:32:57,110 --> 00:32:45,519

short break with our guest

700

00:33:15,830 --> 00:32:57,120

rick delano stay right there

701

00:33:17,990 --> 00:33:15,840

[Music]

702

00:33:20,230 --> 00:33:18,000

this is nicole church daughter of you

703

00:33:22,549 --> 00:33:20,240

know who and you're listening to fade to

704

00:33:26,630 --> 00:33:22,559

black on jimmychurchradio.com and the

705

00:33:33,029 --> 00:33:28,870

you're listening to jimmy church fade to

706

00:33:44,549 --> 00:33:36,830

fate to black will now pause for alien

707

00:33:48,710 --> 00:33:46,789

introducing the game changer blend from

708

00:33:51,110 --> 00:33:48,720

river moon coffee that delivers a

709

00:33:53,509 --> 00:33:51,120

customized blend made specifically

710

00:33:54,310 --> 00:33:53,519

for the fader knots if the game is

711

00:33:57,269 --> 00:33:54,320

rigged

712

00:33:58,389 --> 00:33:57,279

change the game it's a boulder cup with

713

00:34:00,710 --> 00:33:58,399

some bite

714

00:34:02,950 --> 00:34:00,720

game changer is the coffee of choice for

715

00:34:04,070 --> 00:34:02,960

those that prefer an organic dark roast

716

00:34:07,590 --> 00:34:04,080

that is slightly

717

00:34:10,149 --> 00:34:07,600

lighter and milder but it's still dark

718

00:34:11,030 --> 00:34:10,159

with wild notes of pecans and chocolate

719

00:34:13,589 --> 00:34:11,040

with a rich

720

00:34:15,669 --> 00:34:13,599

balanced full-bodied cup that is roasted

721

00:34:16,869 --> 00:34:15,679

to perfection for a great coffee to

722

00:34:19,909 --> 00:34:16,879

start your day

723

00:34:20,790 --> 00:34:19,919

as an after dinner coffee or anywhere in

724

00:34:22,790 --> 00:34:20,800

between

725

00:34:25,750 --> 00:34:22,800

artisan small batch roasted to

726

00:34:28,310 --> 00:34:25,760

perfection usda certified organic all

727

00:34:30,230 --> 00:34:28,320

river moon coffee is freshly roasted and

728

00:34:32,310 --> 00:34:30,240

packaged in the usa

729

00:34:34,550 --> 00:34:32,320

just go to rivermooncoffee.com or click

730

00:34:35,430 --> 00:34:34,560

on the banners over on our site and use

731

00:34:41,149 --> 00:34:35,440

the promo code

732

00:34:48,230 --> 00:34:41,159

f2b blend for 15 off of your order today

733

00:34:53,230 --> 00:34:48,240

rivermooncoffee.com go back lee tappy

734

00:34:55,510 --> 00:34:53,240

is aid to black make contact

735

00:34:57,190 --> 00:34:55,520

kgraradio.com

736

00:35:00,069 --> 00:34:57,200

this is jimmy church of fade to black

737

00:35:01,510 --> 00:35:00,079

and you can get our podcast for just two

738

00:35:03,030 --> 00:35:01,520

dollars per month

739

00:35:05,790 --> 00:35:03,040

all you have to do is click on the

740

00:35:07,510 --> 00:35:05,800

podcast banner over at

741

00:35:10,150 --> 00:35:07,520

jimmychurchradio.com

742

00:35:11,510 --> 00:35:10,160

hi folks it's trembling times and fear

743

00:35:13,670 --> 00:35:11,520

is pushing emotions

744

00:35:15,430 --> 00:35:13,680

which in turn pushes health the wrong

745

00:35:16,470 --> 00:35:15,440

direction do you ever get an egg because

746

00:35:18,870 --> 00:35:16,480

life is uneasy

747

00:35:20,710 --> 00:35:18,880

try life change tea at [get the tea.com](http://getthetea.com)

748

00:35:22,390 --> 00:35:20,720

life change tea works on your digestive

749

00:35:22,950 --> 00:35:22,400

tract helping to move food through

750

00:35:25,190 --> 00:35:22,960

quicker

751
00:35:27,190 --> 00:35:25,200
and comfortably so your health is spot

752
00:35:28,069 --> 00:35:27,200
on life change tea may not help with

753
00:35:30,150 --> 00:35:28,079
world issues

754
00:35:32,470 --> 00:35:30,160
but it will help with your digestive

755
00:35:33,670 --> 00:35:32,480
issues a glass a day helps keep the

756
00:35:37,030 --> 00:35:33,680
intruders away

757
00:35:39,510 --> 00:35:37,040
so change your life today log on to get

758
00:35:42,069 --> 00:35:39,520
the tea.com that's get the tea

759
00:35:44,150 --> 00:35:42,079
dot com if your health game is off get

760
00:35:46,550 --> 00:35:44,160
on by ordering life change tea

761
00:35:48,950 --> 00:35:46,560
get the tea.com and while you're on our

762
00:35:50,069 --> 00:35:48,960
site look around at the great non-gmo

763
00:35:51,990 --> 00:35:50,079

organic supplements

764

00:35:53,349 --> 00:35:52,000

and if you're a sales shopper go to our

765

00:35:55,109 --> 00:35:53,359

specials page

766

00:35:56,790 --> 00:35:55,119

and see what's for you i've been

767

00:35:57,990 --> 00:35:56,800

drinking the tea for 12 years and i'm

768

00:36:01,190 --> 00:35:58,000

sure glad for its health

769

00:36:04,790 --> 00:36:01,200

benefits again that's get the tea.com

770

00:36:06,150 --> 00:36:04,800

get the tea dot com the tea that makes

771

00:36:08,470 --> 00:36:06,160

you go

772

00:36:09,589 --> 00:36:08,480

permanent industrial glue impossible to

773

00:36:12,230 --> 00:36:09,599

remove

774

00:36:13,349 --> 00:36:12,240

not anymore because handyman formula by

775

00:36:15,510 --> 00:36:13,359

debond is a

776

00:36:16,550 --> 00:36:15,520

patented chemical adhesive remover it's

777

00:36:18,230 --> 00:36:16,560

used in the building and home

778

00:36:20,870 --> 00:36:18,240

maintenance industry but now

779

00:36:22,870 --> 00:36:20,880

it's available for your home use for

780

00:36:25,829 --> 00:36:22,880

your diy projects

781

00:36:27,030 --> 00:36:25,839

unglue stickers silicone rubber labels

782

00:36:29,190 --> 00:36:27,040

price tags flex tape

783

00:36:30,069 --> 00:36:29,200

weather stripping carpet glue wood glue

784

00:36:33,990 --> 00:36:30,079

liquid nails

785

00:36:37,190 --> 00:36:34,000

even 3m 5200 and it dissolves

786

00:36:39,349 --> 00:36:37,200

graffiti yeah graffiti handyman formula

787

00:36:40,630 --> 00:36:39,359

by d bond works and it's safe to use on

788

00:36:42,630 --> 00:36:40,640

most surfaces

789

00:36:44,470 --> 00:36:42,640

no need to call a professional don't get

790

00:36:46,630 --> 00:36:44,480

out the pliers and blow torch

791

00:36:47,510 --> 00:36:46,640

just apply a little handyman formula by

792

00:36:50,310 --> 00:36:47,520

d-bond and

793

00:36:51,829 --> 00:36:50,320

wait 90 seconds then quickly and easily

794

00:36:54,109 --> 00:36:51,839

pull the items apart

795

00:36:56,829 --> 00:36:54,119

get unstuck visit

796

00:37:00,589 --> 00:36:56,839

dbondhandymanformula.com that's

797

00:37:06,069 --> 00:37:02,390

561-575-4200

798

00:37:11,190 --> 00:37:06,079

handyman formula by d-bond

799

00:37:18,630 --> 00:37:14,950

fade to black is not

800

00:37:20,829 --> 00:37:18,640

your father's radio show on the game

801

00:37:24,870 --> 00:37:20,839

changer radio network and

802

00:37:26,870 --> 00:37:24,880

kgra the planet

803

00:37:31,430 --> 00:37:26,880

hi this is rob reiner from anvil and

804

00:37:34,390 --> 00:37:31,440

you're listening to jimmychurchradio.com

805

00:37:36,250 --> 00:37:34,400

what's up i'm chris what up this is

806

00:37:48,850 --> 00:37:36,260

jimmy church radio

807

00:37:48,860 --> 00:37:53,910

[Music]

808

00:37:57,829 --> 00:37:55,510

all right welcome back fade to black i

809

00:37:59,829 --> 00:37:57,839

am your host jimmy church

810

00:38:01,190 --> 00:37:59,839

what a great show we've got tonight

811

00:38:03,829 --> 00:38:01,200

producer

812

00:38:06,870 --> 00:38:03,839

rick delano is here and tomorrow night

813

00:38:07,990 --> 00:38:06,880

stephen bassett live from washington dc

814

00:38:09,829 --> 00:38:08,000

you're not going to want to miss that

815

00:38:11,109 --> 00:38:09,839

and of course thursday night is fader

816

00:38:14,230 --> 00:38:11,119

night with open lines

817

00:38:16,470 --> 00:38:14,240

all night long rick delano has

818

00:38:18,310 --> 00:38:16,480

worked as an executive producer

819

00:38:20,390 --> 00:38:18,320

financial consultant in the music and

820

00:38:22,950 --> 00:38:20,400

film industries for more than 20 years

821

00:38:24,630 --> 00:38:22,960

and then he released a very

822

00:38:26,630 --> 00:38:24,640

controversial movie called the principle

823

00:38:29,270 --> 00:38:26,640

we will be talking about that tonight

824

00:38:30,630 --> 00:38:29,280

but his newest production is the end of

825

00:38:32,230 --> 00:38:30,640

quantum reality

826

00:38:34,870 --> 00:38:32,240

a work based on the discoveries of

827

00:38:37,190 --> 00:38:34,880

former mit mathematics professor dr

828

00:38:39,190 --> 00:38:37,200

wolfgang smith we are going to talk

829

00:38:40,950 --> 00:38:39,200

about all of that tonight i want to

830

00:38:41,829 --> 00:38:40,960

welcome for the first time to fade to

831

00:38:43,990 --> 00:38:41,839

black

832

00:38:45,190 --> 00:38:44,000

rick delano rick good evening man how

833

00:38:47,750 --> 00:38:45,200

are you

834

00:38:48,870 --> 00:38:47,760

i'm great jimmy thanks for having me on

835

00:38:51,430 --> 00:38:48,880

hey uh

836

00:38:52,470 --> 00:38:51,440

you get the first time guest disclaimer

837

00:38:54,790 --> 00:38:52,480

rick

838

00:38:56,150 --> 00:38:54,800

the next time the next time we have you

839

00:38:57,190 --> 00:38:56,160

on the show you're not gonna get it but

840

00:38:59,109 --> 00:38:57,200

here we go

841

00:39:00,630 --> 00:38:59,119

uh and it's this it's just you and i

842

00:39:02,230 --> 00:39:00,640

sitting on my couch having a

843

00:39:04,069 --> 00:39:02,240

conversation as friends

844

00:39:05,670 --> 00:39:04,079

and where the conversation starts where

845

00:39:06,470 --> 00:39:05,680

it ends it ends but we're going to end

846

00:39:09,589 --> 00:39:06,480

his friends

847

00:39:10,390 --> 00:39:09,599

there you go all right you ready works

848

00:39:13,430 --> 00:39:10,400

for me

849

00:39:15,349 --> 00:39:13,440

you're right on right now um uh you know

850

00:39:17,190 --> 00:39:15,359

what before

851
00:39:19,190 --> 00:39:17,200
before we get started here and there's a

852
00:39:21,109 --> 00:39:19,200
lot of foundation uh to lay so we're

853
00:39:24,150 --> 00:39:21,119
gonna get into all of that

854
00:39:24,470 --> 00:39:24,160
but uh let me actually start here which

855
00:39:31,910 --> 00:39:24,480
is

856
00:39:34,950 --> 00:39:31,920
the reception of the film been so far

857
00:39:38,310 --> 00:39:34,960
we have been incredibly uh

858
00:39:41,670 --> 00:39:38,320
blessed to uh

859
00:39:42,710 --> 00:39:41,680
have you know we were a little bit

860
00:39:44,710 --> 00:39:42,720
freaked out because

861
00:39:46,630 --> 00:39:44,720
basically the entire movie business

862
00:39:48,710 --> 00:39:46,640
ceased to exist in the middle of our

863
00:39:49,430 --> 00:39:48,720

theatrical run back in january and

864

00:39:52,550 --> 00:39:49,440

february

865

00:39:56,710 --> 00:39:52,560

right we had played about 15 cities

866

00:39:58,470 --> 00:39:56,720

we had uh all kinds of uh of new

867

00:40:00,310 --> 00:39:58,480

opportunities opening up and then all of

868

00:40:03,589 --> 00:40:00,320

a sudden the movie business ceased

869

00:40:06,470 --> 00:40:03,599

to exist and

870

00:40:08,870 --> 00:40:06,480

we didn't really know uh what kind of an

871

00:40:12,309 --> 00:40:08,880

effect that was going to have

872

00:40:13,990 --> 00:40:12,319

on our digital release and we are just

873

00:40:16,390 --> 00:40:14,000

stunned you know we've

874

00:40:17,990 --> 00:40:16,400

this film has sold into over 60

875

00:40:21,270 --> 00:40:18,000

countries around the world

876

00:40:24,710 --> 00:40:21,280

already we have we have had just

877

00:40:27,109 --> 00:40:24,720

remarkable uh response to the film

878

00:40:29,190 --> 00:40:27,119

we've basically been completely ignored

879

00:40:32,870 --> 00:40:29,200

by mainstream media

880

00:40:34,550 --> 00:40:32,880

uh the the couple of reviews we did get

881

00:40:36,829 --> 00:40:34,560

in in mainstream

882

00:40:38,710 --> 00:40:36,839

uh papers were basically just

883

00:40:40,630 --> 00:40:38,720

contemptuous

884

00:40:42,390 --> 00:40:40,640

oh these guys are a bunch of catholics

885

00:40:43,750 --> 00:40:42,400

you don't have to pay any attention to

886

00:40:47,589 --> 00:40:43,760

them

887

00:40:51,990 --> 00:40:47,599

and in spite of that uh we are

888

00:40:52,710 --> 00:40:52,000

just extremely gratified at the uh at

889

00:40:56,309 --> 00:40:52,720

the very

890

00:40:59,589 --> 00:40:56,319

wide distribution the film continues

891

00:41:00,630 --> 00:40:59,599

uh to be receiving through uh both video

892

00:41:04,470 --> 00:41:00,640

on demand

893

00:41:06,470 --> 00:41:04,480

and uh our own uh website for a dvds

894

00:41:08,790 --> 00:41:06,480

it's been remarkable now

895

00:41:10,230 --> 00:41:08,800

it's so funny for you to say something

896

00:41:12,710 --> 00:41:10,240

like uh

897

00:41:13,750 --> 00:41:12,720

catholics because if somebody says

898

00:41:15,670 --> 00:41:13,760

something like that

899

00:41:16,530 --> 00:41:15,680

and it was seriously there they didn't

900

00:41:18,470 --> 00:41:16,540

watch the film

901
00:41:21,030 --> 00:41:18,480
[Laughter]

902
00:41:21,829 --> 00:41:21,040
i think it is a very safe bat that

903
00:41:24,390 --> 00:41:21,839
neither the

904
00:41:26,870 --> 00:41:24,400
la times nor the hollywood reporter

905
00:41:29,030 --> 00:41:26,880
actually watched the film

906
00:41:31,030 --> 00:41:29,040
they more or less admit it you know they

907
00:41:33,670 --> 00:41:31,040
they they said you know we

908
00:41:35,510 --> 00:41:33,680
we we couldn't make it hide and you

909
00:41:36,150 --> 00:41:35,520
couldn't make head no tales out of this

910
00:41:37,829 --> 00:41:36,160
but

911
00:41:39,430 --> 00:41:37,839
we went to the website and look they

912
00:41:41,510 --> 00:41:39,440
talk about how

913
00:41:43,270 --> 00:41:41,520

this film was made for the glory of god

914

00:41:47,430 --> 00:41:43,280

so we can ignore it

915

00:41:51,030 --> 00:41:48,950

i would say well there's so many

916

00:41:53,670 --> 00:41:51,040

groundbreaking things in the film

917

00:41:54,790 --> 00:41:53,680

but my response to that and i want your

918

00:41:57,510 --> 00:41:54,800

response

919

00:41:59,270 --> 00:41:57,520

is that one of the things that i thought

920

00:42:03,430 --> 00:41:59,280

was a revelation in the film

921

00:42:06,790 --> 00:42:03,440

and so warm and cool was tibet

922

00:42:10,309 --> 00:42:06,800

right what does that have to do with the

923

00:42:13,829 --> 00:42:12,069

this is what's so remarkable about

924

00:42:16,950 --> 00:42:13,839

wolfgang i mean when i

925

00:42:18,470 --> 00:42:16,960

first started to really get to know

926
00:42:21,589 --> 00:42:18,480
wolfgang

927
00:42:21,910 --> 00:42:21,599
and i realized what a remarkable man

928
00:42:24,309 --> 00:42:21,920
this

929
00:42:25,990 --> 00:42:24,319
is i mean here is the guy who was

930
00:42:29,190 --> 00:42:26,000
accepted into cornell at

931
00:42:31,750 --> 00:42:29,200
14 years of age

932
00:42:34,230 --> 00:42:31,760
by the time he was 18 he had graduated

933
00:42:37,270 --> 00:42:34,240
with majors in mathematics physics and

934
00:42:39,670 --> 00:42:37,280
philosophy he

935
00:42:41,430 --> 00:42:39,680
had a master's degree in quantum

936
00:42:42,309 --> 00:42:41,440
mechanics from purdue by the time he was

937
00:42:45,589 --> 00:42:42,319
20

938
00:42:47,349 --> 00:42:45,599

and then he took off to india i never

939

00:42:48,950 --> 00:42:47,359

intended to come back by the way it was

940

00:42:50,550 --> 00:42:48,960

never his intention to come back

941

00:42:53,750 --> 00:42:50,560

he's such a remarkable man you know he

942

00:42:56,870 --> 00:42:53,760

said i wanted to climb this

943

00:43:00,470 --> 00:42:56,880

ladder that i knew i could only find

944

00:43:03,030 --> 00:43:00,480

in the remnants of the ancient

945

00:43:04,470 --> 00:43:03,040

vidantic traditions still to be found

946

00:43:06,710 --> 00:43:04,480

deep in the himalayas

947

00:43:08,309 --> 00:43:06,720

i never intended to come back and i said

948

00:43:11,349 --> 00:43:08,319

well why did you

949

00:43:12,710 --> 00:43:11,359

and he smiles and he says because i

950

00:43:15,750 --> 00:43:12,720

wasn't good enough

951
00:43:18,910 --> 00:43:15,760
i couldn't climb that ladder

952
00:43:22,390 --> 00:43:18,920
but nevertheless i came back and it an

953
00:43:25,030 --> 00:43:22,400
entirely changed man

954
00:43:27,270 --> 00:43:25,040
and this is such a remarkable man he not

955
00:43:30,230 --> 00:43:27,280
only completely swims

956
00:43:33,510 --> 00:43:30,240
to the deep water of the most advanced

957
00:43:36,790 --> 00:43:33,520
western science mathematics philosophy

958
00:43:40,630 --> 00:43:36,800
he has also made direct living

959
00:43:44,069 --> 00:43:40,640
contact with the most ancient

960
00:43:46,470 --> 00:43:44,079
wisdom schools of mankind that is that

961
00:43:48,390 --> 00:43:46,480
at that time were still to be found you

962
00:43:50,630 --> 00:43:48,400
had to go way up into the himalayas to

963
00:43:53,670 --> 00:43:50,640

find them but they were still there

964

00:43:54,390 --> 00:43:53,680

and he contacted these people and he

965

00:43:57,990 --> 00:43:54,400

swears

966

00:43:59,510 --> 00:43:58,000

to me up and down that what he received

967

00:44:02,309 --> 00:43:59,520

over there is something he

968

00:44:02,950 --> 00:44:02,319

never could have received anywhere else

969

00:44:05,829 --> 00:44:02,960

right

970

00:44:08,230 --> 00:44:05,839

and that his entire subsequent course of

971

00:44:11,750 --> 00:44:08,240

his studies of his life

972

00:44:14,870 --> 00:44:11,760

of his writing were deeply influenced

973

00:44:16,870 --> 00:44:14,880

uh by this experience and encounter with

974

00:44:18,550 --> 00:44:16,880

the ancient traditions of the of the

975

00:44:22,069 --> 00:44:18,560

hindu tradition

976

00:44:23,910 --> 00:44:22,079

don't you feel that um and again we're

977

00:44:25,670 --> 00:44:23,920

getting ahead of our skis but i love the

978

00:44:28,790 --> 00:44:25,680

conversation

979

00:44:30,870 --> 00:44:28,800

don't you feel that if you are going uh

980

00:44:32,309 --> 00:44:30,880

to pursue a life of physics and that you

981

00:44:34,550 --> 00:44:32,319

want to make that your career

982

00:44:35,349 --> 00:44:34,560

and especially in the quantum side maybe

983

00:44:37,430 --> 00:44:35,359

astro too

984

00:44:39,030 --> 00:44:37,440

as well but if you're gonna go there

985

00:44:43,109 --> 00:44:39,040

that you need to do a

986

00:44:46,150 --> 00:44:43,119

six month uh sabbatical in your courses

987

00:44:48,950 --> 00:44:46,160

and go to tibet oh right oh i

988

00:44:50,230 --> 00:44:48,960

i i can't tell you how much i agree with

989

00:44:54,069 --> 00:44:50,240

that it's

990

00:44:56,230 --> 00:44:54,079

it especially now i mean i suppose for a

991

00:44:59,190 --> 00:44:56,240

while i mean let's face it

992

00:44:59,750 --> 00:44:59,200

the enlightenment had a very very good

993

00:45:03,750 --> 00:44:59,760

run

994

00:45:05,829 --> 00:45:03,760

i mean golly for 300 years it really was

995

00:45:08,950 --> 00:45:05,839

possible to believe

996

00:45:12,150 --> 00:45:08,960

that these guys had found the magic key

997

00:45:13,030 --> 00:45:12,160

uh as we talked in the film what newton

998

00:45:16,710 --> 00:45:13,040

accomplished was

999

00:45:19,829 --> 00:45:16,720

so astonishing so overwhelming

1000

00:45:23,109 --> 00:45:19,839

in its power and persuasiveness

1001

00:45:24,870 --> 00:45:23,119

that it's perfectly reasonable to

1002

00:45:26,710 --> 00:45:24,880

have a little sympathy for the

1003

00:45:28,470 --> 00:45:26,720

inheritors of that tradition

1004

00:45:30,230 --> 00:45:28,480

when they basically started to look at

1005

00:45:32,230 --> 00:45:30,240

every other way of knowing as something

1006

00:45:34,150 --> 00:45:32,240

sort of contemptuous you know

1007

00:45:35,510 --> 00:45:34,160

i remember in my first film lawrence

1008

00:45:37,750 --> 00:45:35,520

krauss

1009

00:45:39,829 --> 00:45:37,760

said you know philosophy was useful back

1010

00:45:41,430 --> 00:45:39,839

before we had physical science

1011

00:45:43,270 --> 00:45:41,440

but now that we have physical science

1012

00:45:46,550 --> 00:45:43,280

philosophy is obsolete

1013

00:45:48,950 --> 00:45:46,560

and that arrogance is

1014

00:45:49,910 --> 00:45:48,960

that's the best lord that's the best

1015

00:45:53,030 --> 00:45:49,920

lawrence grouse

1016

00:45:55,270 --> 00:45:53,040

impersonation i've ever heard

1017

00:45:56,710 --> 00:45:55,280

well you know i spent thousands of hours

1018

00:45:59,270 --> 00:45:56,720

listening to lauren

1019

00:45:59,990 --> 00:45:59,280

when i was editing the film and you know

1020

00:46:01,990 --> 00:46:00,000

i i really

1021

00:46:03,589 --> 00:46:02,000

must say i'm i'm deeply indebted to

1022

00:46:04,309 --> 00:46:03,599

lawrence craft my first film would have

1023

00:46:07,829 --> 00:46:04,319

been

1024

00:46:11,030 --> 00:46:07,839

not nearly as good without him

1025

00:46:13,829 --> 00:46:11,040

because a good film you gotta have

1026
00:46:14,710 --> 00:46:13,839
really strong voices all across the

1027
00:46:17,990 --> 00:46:14,720
spectrum

1028
00:46:21,589 --> 00:46:18,000
especially the side that you do not find

1029
00:46:22,950 --> 00:46:21,599
persuasive it's so easy to allow

1030
00:46:25,589 --> 00:46:22,960
yourself to

1031
00:46:27,990 --> 00:46:25,599
to edit a film so that it it sort of

1032
00:46:29,829 --> 00:46:28,000
slants toward your side of the tracks

1033
00:46:32,069 --> 00:46:29,839
sure that's not a good documentary a

1034
00:46:35,349 --> 00:46:32,079
good documentary is when the punches

1035
00:46:38,309 --> 00:46:35,359
are thrown clean and hard

1036
00:46:40,870 --> 00:46:38,319
from all sides of the spectrum and you

1037
00:46:44,390 --> 00:46:40,880
know lawrence is very entertaining

1038
00:46:45,910 --> 00:46:44,400

uh you know it takes a certain degree of

1039

00:46:48,630 --> 00:46:45,920

hutzpah

1040

00:46:50,710 --> 00:46:48,640

to actually let a camera be running

1041

00:46:52,309 --> 00:46:50,720

while a doctor of physics explains to us

1042

00:46:54,390 --> 00:46:52,319

the philosophy has no

1043

00:46:55,510 --> 00:46:54,400

we we have no use for philosophy in the

1044

00:46:58,710 --> 00:46:55,520

world anymore

1045

00:47:00,069 --> 00:46:58,720

physics has taken over just to have the

1046

00:47:01,990 --> 00:47:00,079

hoods put to actually

1047

00:47:05,510 --> 00:47:02,000

say something like that with a camera

1048

00:47:08,630 --> 00:47:05,520

running it makes for a very good film

1049

00:47:11,270 --> 00:47:08,640

yeah and these physicists today uh i

1050

00:47:14,390 --> 00:47:11,280

call them rock star physicists and

1051

00:47:16,870 --> 00:47:14,400

and where it's different

1052

00:47:20,150 --> 00:47:16,880

maybe feynman may be an exception he's a

1053

00:47:24,069 --> 00:47:21,829

he's a great physicist yeah great

1054

00:47:27,270 --> 00:47:24,079

physicist and and and knew how to

1055

00:47:27,670 --> 00:47:27,280

uh knew how to uh be theatrical you know

1056

00:47:32,309 --> 00:47:27,680

he was

1057

00:47:33,270 --> 00:47:32,319

lectures are just hilarious i love him

1058

00:47:35,430 --> 00:47:33,280

so entertaining

1059

00:47:37,349 --> 00:47:35,440

i love him but uh today you know with

1060

00:47:38,069 --> 00:47:37,359

lawrence krauss and sean carroll and

1061

00:47:41,190 --> 00:47:38,079

green

1062

00:47:41,510 --> 00:47:41,200

and and uh even dawkins you can throw

1063

00:47:44,950 --> 00:47:41,520

him

1064

00:47:48,549 --> 00:47:44,960

into the mix um these guys

1065

00:47:50,309 --> 00:47:48,559

are also performers and they are very

1066

00:47:51,910 --> 00:47:50,319

comfortable in front of the camera

1067

00:47:54,470 --> 00:47:51,920

and i don't think we had that in the

1068

00:47:56,309 --> 00:47:54,480

past um and i'll tell you why it wasn't

1069

00:47:57,589 --> 00:47:56,319

it wasn't quite as big of a business in

1070

00:47:59,670 --> 00:47:57,599

the past

1071

00:48:01,430 --> 00:47:59,680

you think about a guy named albert

1072

00:48:04,710 --> 00:48:01,440

einstein

1073

00:48:07,510 --> 00:48:04,720

you know he was working as a clerk

1074

00:48:09,190 --> 00:48:07,520

in the swiss patent office when he wrote

1075

00:48:11,910 --> 00:48:09,200

his paper on special relativity there

1076

00:48:13,990 --> 00:48:11,920

was no big science back then

1077

00:48:15,990 --> 00:48:14,000

i mean this guy had to pay the bills by

1078

00:48:17,670 --> 00:48:16,000

clerking in a patent office

1079

00:48:19,349 --> 00:48:17,680

when he wrote what is quite probably the

1080

00:48:21,190 --> 00:48:19,359

most influential paper written in

1081

00:48:23,109 --> 00:48:21,200

physics since newton died

1082

00:48:24,309 --> 00:48:23,119

it's a whole different ballgame now this

1083

00:48:27,750 --> 00:48:24,319

is big

1084

00:48:28,870 --> 00:48:27,760

business it is their business there are

1085

00:48:32,390 --> 00:48:28,880

hundreds of

1086

00:48:36,390 --> 00:48:32,400

billions of dollars at stake

1087

00:48:39,829 --> 00:48:36,400

and essentially you know the the world

1088

00:48:43,910 --> 00:48:39,839

story that we tell ourselves today

1089

00:48:46,829 --> 00:48:43,920

uh we have learned from the physicists

1090

00:48:48,470 --> 00:48:46,839

and while that story behind the scenes

1091

00:48:50,390 --> 00:48:48,480

is

1092

00:48:51,910 --> 00:48:50,400

it's much more than just fraying at the

1093

00:48:54,790 --> 00:48:51,920

edges as as we

1094

00:48:57,589 --> 00:48:54,800

say at the beginning of the new film uh

1095

00:49:00,790 --> 00:48:57,599

all of the pillars are wobbling now

1096

00:49:02,069 --> 00:49:00,800

every one of the fundamental things that

1097

00:49:04,630 --> 00:49:02,079

we've all been told

1098

00:49:06,150 --> 00:49:04,640

is certainly true all the way through

1099

00:49:08,870 --> 00:49:06,160

our schooling and growing up

1100

00:49:11,349 --> 00:49:08,880

oh the big bang happened 13.6 no make

1101

00:49:14,390 --> 00:49:11,359

that 13.8 billion years ago

1102

00:49:16,150 --> 00:49:14,400

i remember kraus said to me the big bang

1103

00:49:18,309 --> 00:49:16,160

happened it's just as sure

1104

00:49:19,510 --> 00:49:18,319

as you sitting across from me in that

1105

00:49:22,309 --> 00:49:19,520

chair

1106

00:49:24,309 --> 00:49:22,319

well that's complete nonsense that's an

1107

00:49:28,309 --> 00:49:24,319

insult to the intelligence of

1108

00:49:31,030 --> 00:49:28,319

anyone who can discern the difference

1109

00:49:33,430 --> 00:49:31,040

between the speculative and theoretical

1110

00:49:35,750 --> 00:49:33,440

conclusions of a given scientific

1111

00:49:37,750 --> 00:49:35,760

theory and the fact that i can look at

1112

00:49:41,670 --> 00:49:37,760

you sitting in the chair across from me

1113

00:49:45,109 --> 00:49:41,680

to actually insult our intelligence

1114

00:49:46,069 --> 00:49:45,119

by insisting that the two things can be

1115

00:49:49,109 --> 00:49:46,079

known with

1116

00:49:50,230 --> 00:49:49,119

similar degrees of certainty that's an

1117

00:49:53,750 --> 00:49:50,240

example of where

1118

00:49:56,790 --> 00:49:53,760

pr has become the product

1119

00:49:58,390 --> 00:49:56,800

rather than science guys like einstein

1120

00:50:01,910 --> 00:49:58,400

guys like heisenberg

1121

00:50:04,069 --> 00:50:01,920

there was no celebrity involved

1122

00:50:06,549 --> 00:50:04,079

uh at the early stages of their career

1123

00:50:10,710 --> 00:50:06,559

later on of course they got it

1124

00:50:12,870 --> 00:50:10,720

but the the entire scientific enterprise

1125

00:50:15,670 --> 00:50:12,880

now is such big business

1126
00:50:17,510 --> 00:50:15,680
has such immense power both financially

1127
00:50:20,069 --> 00:50:17,520
and culturally

1128
00:50:21,589 --> 00:50:20,079
that there is an entire division of

1129
00:50:24,710 --> 00:50:21,599
public relations

1130
00:50:25,430 --> 00:50:24,720
neil degrasse tyson uh the guys you

1131
00:50:28,630 --> 00:50:25,440
mentioned

1132
00:50:30,230 --> 00:50:28,640
whose real job whose real function is to

1133
00:50:33,670 --> 00:50:30,240
be a talking head

1134
00:50:34,069 --> 00:50:33,680
on your tv set assuring you that we have

1135
00:50:37,109 --> 00:50:34,079
it

1136
00:50:40,150 --> 00:50:37,119
all figured out right supporting their

1137
00:50:40,790 --> 00:50:40,160
dogma and see the thing is and the thing

1138
00:50:49,670 --> 00:50:40,800

is

1139

00:50:55,349 --> 00:50:49,680

back in in the 30s well in the teens

1140

00:50:57,510 --> 00:50:55,359

right uh 1917 1915 special in general

1141

00:50:59,510 --> 00:50:57,520

uh when those were authored and

1142

00:51:00,390 --> 00:50:59,520

everything that happened after that with

1143

00:51:03,510 --> 00:51:00,400

heisenberg

1144

00:51:05,750 --> 00:51:03,520

and and and boars all of that they

1145

00:51:07,910 --> 00:51:05,760

weren't basing everything on dogma

1146

00:51:09,990 --> 00:51:07,920

these guys were asking questions yeah

1147

00:51:12,710 --> 00:51:10,000

these guys were asking questions

1148

00:51:15,109 --> 00:51:12,720

they were trying to figure things out

1149

00:51:17,750 --> 00:51:15,119

wolfgang of course studied

1150

00:51:19,990 --> 00:51:17,760

directly under people who were trained

1151
00:51:22,710 --> 00:51:20,000
by heisenberg i mean he

1152
00:51:23,030 --> 00:51:22,720
he was at cornell in the 40s this was

1153
00:51:27,829 --> 00:51:23,040
the

1154
00:51:31,349 --> 00:51:27,839
in getting a physics degree

1155
00:51:32,470 --> 00:51:31,359
then was just unimaginable compared to

1156
00:51:35,190 --> 00:51:32,480
today

1157
00:51:36,230 --> 00:51:35,200
and what wolfgang always told me is that

1158
00:51:39,670 --> 00:51:36,240
science has

1159
00:51:41,510 --> 00:51:39,680
changed drastically since he was

1160
00:51:42,950 --> 00:51:41,520
uh since he was an undergraduate and a

1161
00:51:46,470 --> 00:51:42,960
graduate at

1162
00:51:49,750 --> 00:51:46,480
cornell and perdue at mit that

1163
00:51:52,829 --> 00:51:49,760

the degree of rigor that was required

1164

00:51:54,710 --> 00:51:52,839

under his professors is simply

1165

00:51:57,910 --> 00:51:54,720

unimaginable

1166

00:52:00,950 --> 00:51:57,920

compared to the essentially pr

1167

00:52:04,069 --> 00:52:00,960

operations that we see

1168

00:52:05,510 --> 00:52:04,079

just very powerfully spread and

1169

00:52:08,309 --> 00:52:05,520

supported

1170

00:52:10,230 --> 00:52:08,319

across the popular science press today

1171

00:52:13,510 --> 00:52:10,240

back then there was still

1172

00:52:16,870 --> 00:52:13,520

a real sense that physics

1173

00:52:20,230 --> 00:52:16,880

was the most

1174

00:52:23,510 --> 00:52:20,240

rigorous self-correcting

1175

00:52:28,790 --> 00:52:26,630

you couldn't just blow smoke uh

1176

00:52:29,670 --> 00:52:28,800

back in in the early decades of this

1177

00:52:31,910 --> 00:52:29,680

century

1178

00:52:33,670 --> 00:52:31,920

you had to have the goods and you had to

1179

00:52:36,790 --> 00:52:33,680

be able to experimentally

1180

00:52:39,750 --> 00:52:36,800

demonstrate that you had the goods

1181

00:52:42,150 --> 00:52:39,760

and that's where we got the tremendous

1182

00:52:44,549 --> 00:52:42,160

breakthroughs in quantum mechanics

1183

00:52:45,349 --> 00:52:44,559

it wasn't because they had a better pr

1184

00:52:47,430 --> 00:52:45,359

operation

1185

00:52:50,710 --> 00:52:47,440

it wasn't because they had sean carroll

1186

00:52:52,790 --> 00:52:50,720

out writing a new york times bestseller

1187

00:52:54,150 --> 00:52:52,800

because they had the experiments and

1188

00:52:57,270 --> 00:52:54,160

they could show

1189

00:53:00,309 --> 00:52:57,280

that their equations predicted those

1190

00:53:01,829 --> 00:53:00,319

results and there was another oh

1191

00:53:03,750 --> 00:53:01,839

you know what we're going to continue

1192

00:53:05,910 --> 00:53:03,760

this part of the conversation

1193

00:53:06,790 --> 00:53:05,920

when we come back for the break because

1194

00:53:10,069 --> 00:53:06,800

i i

1195

00:53:13,670 --> 00:53:10,079

i have to ask this before the break how

1196

00:53:16,390 --> 00:53:13,680

did you go from music

1197

00:53:17,990 --> 00:53:16,400

and film right executive producing and

1198

00:53:21,190 --> 00:53:18,000

finance and money

1199

00:53:21,589 --> 00:53:21,200

into hardcore physics and the acquiring

1200

00:53:24,230 --> 00:53:21,599

of

1201
00:53:25,030 --> 00:53:24,240
the knowledge was this something that

1202
00:53:27,270 --> 00:53:25,040
you had

1203
00:53:30,150 --> 00:53:27,280
an interest in throughout life or did

1204
00:53:33,430 --> 00:53:30,160
you just jump in with both feet

1205
00:53:36,870 --> 00:53:33,440
i did neither i it was

1206
00:53:40,150 --> 00:53:36,880
thrown into my lap and i had

1207
00:53:43,430 --> 00:53:40,160
no choice when i was asked

1208
00:53:45,589 --> 00:53:43,440
to produce the principle um

1209
00:53:47,670 --> 00:53:45,599
i said i don't want to do this i have no

1210
00:53:48,630 --> 00:53:47,680
interest in film i have no experience in

1211
00:53:51,109 --> 00:53:48,640
film

1212
00:53:53,109 --> 00:53:51,119
and my friend bob sanjenis tried a

1213
00:53:54,630 --> 00:53:53,119

couple of times to get other producers

1214

00:53:57,109 --> 00:53:54,640

to take the project

1215

00:53:58,150 --> 00:53:57,119

he was not satisfied with uh with the

1216

00:54:00,069 --> 00:53:58,160

results

1217

00:54:01,829 --> 00:54:00,079

and he finally came to me as a friend

1218

00:54:02,390 --> 00:54:01,839

and said rick you're the only guy i

1219

00:54:07,990 --> 00:54:02,400

trust

1220

00:54:10,950 --> 00:54:08,000

to do this and god help me i said yes

1221

00:54:12,150 --> 00:54:10,960

and making the principle turned out to

1222

00:54:15,670 --> 00:54:12,160

be the single

1223

00:54:18,790 --> 00:54:15,680

most incredibly challenging

1224

00:54:20,790 --> 00:54:18,800

uh thing i had ever taken on because i

1225

00:54:22,870 --> 00:54:20,800

was going to put my name on this

1226
00:54:24,230 --> 00:54:22,880
and it become became clear at a very

1227
00:54:27,990 --> 00:54:24,240
early stage

1228
00:54:31,109 --> 00:54:28,000
that i would have to know enough

1229
00:54:33,349 --> 00:54:31,119
to not make any glaring mistakes

1230
00:54:34,630 --> 00:54:33,359
not with the film with that subject no

1231
00:54:35,829 --> 00:54:34,640
you can't step out of bounds because i

1232
00:54:37,349 --> 00:54:35,839
knew how controversial it was going to

1233
00:54:39,349 --> 00:54:37,359
be i knew we were

1234
00:54:40,549 --> 00:54:39,359
speaking with the leading cosmologists

1235
00:54:43,349 --> 00:54:40,559
in the world

1236
00:54:45,190 --> 00:54:43,359
and i spent about three years before we

1237
00:54:48,630 --> 00:54:45,200
made that film

1238
00:54:52,069 --> 00:54:48,640

simply immersed in

1239

00:54:52,470 --> 00:54:52,079

cutting-edge cosmology and i must have

1240

00:54:55,430 --> 00:54:52,480

read

1241

00:54:58,069 --> 00:54:55,440

at least 500 papers and all the footnote

1242

00:55:01,030 --> 00:54:58,079

references in all of those papers

1243

00:55:02,870 --> 00:55:01,040

in order to prepare for the opportunity

1244

00:55:07,030 --> 00:55:02,880

to sit down and interview men like

1245

00:55:10,069 --> 00:55:07,040

george ellis max tegmark lawrence krauss

1246

00:55:13,430 --> 00:55:10,079

michio kaku i was going to get one

1247

00:55:16,309 --> 00:55:13,440

shot with these guys and i knew

1248

00:55:17,829 --> 00:55:16,319

that i had to be in a position to ask

1249

00:55:21,430 --> 00:55:17,839

the questions

1250

00:55:22,870 --> 00:55:21,440

that no other journalist was ever going

1251
00:55:25,829 --> 00:55:22,880
to ask them

1252
00:55:27,109 --> 00:55:25,839
and i took it very seriously and uh it

1253
00:55:29,030 --> 00:55:27,119
was only about

1254
00:55:32,230 --> 00:55:29,040
two and a half years in that i realized

1255
00:55:35,349 --> 00:55:32,240
i absolutely loved this stuff

1256
00:55:38,710 --> 00:55:35,359
and the best it's the best and let me

1257
00:55:42,630 --> 00:55:38,720
let me ask you this um when i watched

1258
00:55:45,990 --> 00:55:42,640
the principal the first time um

1259
00:55:46,630 --> 00:55:46,000
i found myself squirming in my chair i i

1260
00:55:50,069 --> 00:55:46,640
it

1261
00:55:52,549 --> 00:55:50,079
pushes you to a side of being

1262
00:55:53,430 --> 00:55:52,559
uncomfortable it does that's the job of

1263
00:55:55,670 --> 00:55:53,440

the film

1264

00:55:58,630 --> 00:55:55,680

well you know i i when i started

1265

00:56:01,430 --> 00:55:58,640

producing documentaries i took as my

1266

00:56:02,710 --> 00:56:01,440

guiding principle that a good

1267

00:56:06,150 --> 00:56:02,720

documentary film

1268

00:56:07,910 --> 00:56:06,160

exists for one fundamental reason

1269

00:56:09,670 --> 00:56:07,920

and that reason is this a good

1270

00:56:13,109 --> 00:56:09,680

documentary film

1271

00:56:15,349 --> 00:56:13,119

will afflict the comfortable and comfort

1272

00:56:16,230 --> 00:56:15,359

the afflicted that's right that's all i

1273

00:56:18,069 --> 00:56:16,240

ever tried to do

1274

00:56:19,349 --> 00:56:18,079

well you pulled it off in the principle

1275

00:56:20,789 --> 00:56:19,359

i mean

1276

00:56:22,470 --> 00:56:20,799

i'm going to tell the audience uh

1277

00:56:26,230 --> 00:56:22,480

earlier today i told rick i said

1278

00:56:29,030 --> 00:56:26,240

look um i didn't really agree

1279

00:56:29,589 --> 00:56:29,040

with much of the principle but it made

1280

00:56:33,910 --> 00:56:29,599

me

1281

00:56:38,150 --> 00:56:33,920

i don't

1282

00:56:40,710 --> 00:56:38,160

to agree with everything rick

1283

00:56:41,430 --> 00:56:40,720

what's that what's the challenge in that

1284

00:56:45,109 --> 00:56:41,440

right

1285

00:56:46,230 --> 00:56:45,119

yeah bravo man i mean there's so much

1286

00:56:48,069 --> 00:56:46,240

pre-packaged

1287

00:56:49,670 --> 00:56:48,079

you lead you around by the nose out

1288

00:56:52,549 --> 00:56:49,680

there to me the most

1289

00:56:53,670 --> 00:56:52,559

important thing we need to recover as a

1290

00:56:56,470 --> 00:56:53,680

culture

1291

00:56:56,789 --> 00:56:56,480

is the ability to think for ourselves

1292

00:57:00,230 --> 00:56:56,799

and

1293

00:57:02,309 --> 00:57:00,240

learn how to think better for ourselves

1294

00:57:04,870 --> 00:57:02,319

and you know just as a documentary

1295

00:57:09,030 --> 00:57:04,880

filmmaker i want the tension

1296

00:57:11,670 --> 00:57:09,040

i want there to be very strong conflicts

1297

00:57:12,069 --> 00:57:11,680

and i want each of those arguments to be

1298

00:57:17,589 --> 00:57:12,079

very

1299

00:57:19,270 --> 00:57:17,599

i hope that i will do just what you said

1300

00:57:20,549 --> 00:57:19,280

i hope that i will give you something to

1301
00:57:22,069 --> 00:57:20,559
think about

1302
00:57:23,829 --> 00:57:22,079
let me ask you this we've got a three

1303
00:57:26,950 --> 00:57:23,839
minutes before the break okay

1304
00:57:29,589 --> 00:57:26,960
so take your time but out of

1305
00:57:31,990 --> 00:57:29,599
everybody and that includes wolfgang

1306
00:57:34,069 --> 00:57:32,000
tell me that max tag mark was as cool as

1307
00:57:38,150 --> 00:57:34,079
i think he is

1308
00:57:41,349 --> 00:57:38,160
oh what max was the absolute star

1309
00:57:42,390 --> 00:57:41,359
of the principal hands down no doubt

1310
00:57:46,470 --> 00:57:42,400
about it

1311
00:57:48,870 --> 00:57:46,480
you know it's funny i i i must say

1312
00:57:50,069 --> 00:57:48,880
that of every person i have interviewed

1313
00:57:53,990 --> 00:57:50,079

for both films

1314

00:57:56,870 --> 00:57:54,000

wolfgang smith stands head and shoulders

1315

00:57:57,270 --> 00:57:56,880

above everyone else that i interviewed

1316

00:58:00,309 --> 00:57:57,280

uh

1317

00:58:01,750 --> 00:58:00,319

george ellis was the smartest person i

1318

00:58:05,430 --> 00:58:01,760

interviewed for the principal

1319

00:58:05,910 --> 00:58:05,440

sure but in terms of who did the camera

1320

00:58:09,190 --> 00:58:05,920

just

1321

00:58:09,750 --> 00:58:09,200

absolutely love who brightened up the

1322

00:58:13,109 --> 00:58:09,760

screen

1323

00:58:16,309 --> 00:58:13,119

every time he was on it who left us

1324

00:58:18,150 --> 00:58:16,319

absolutely jolted

1325

00:58:20,549 --> 00:58:18,160

every time he appeared on screen that

1326

00:58:23,910 --> 00:58:20,559

would be max tag mark hands down

1327

00:58:25,990 --> 00:58:23,920

yeah i totally agree and there are a

1328

00:58:26,390 --> 00:58:26,000

couple of physicists out there now of

1329

00:58:29,750 --> 00:58:26,400

course

1330

00:58:31,109 --> 00:58:29,760

wolfgang uh is unique unto himself for

1331

00:58:33,109 --> 00:58:31,119

his own reasons and we'll

1332

00:58:34,150 --> 00:58:33,119

start to get into that after the break

1333

00:58:37,349 --> 00:58:34,160

but uh

1334

00:58:41,510 --> 00:58:37,359

max and a little bit with brian greene

1335

00:58:44,710 --> 00:58:41,520

um i think that they have a more open

1336

00:58:45,349 --> 00:58:44,720

mind right they are okay with exploring

1337

00:58:48,230 --> 00:58:45,359

and they are

1338

00:58:48,789 --> 00:58:48,240

okay with being wrong once in a while

1339

00:58:54,470 --> 00:58:48,799

and

1340

00:58:55,990 --> 00:58:54,480

felt that

1341

00:58:57,829 --> 00:58:56,000

where if you're going to go into the

1342

00:58:58,390 --> 00:58:57,839

sense and wonder of wonderment and

1343

00:59:00,870 --> 00:58:58,400

ponder

1344

00:59:02,069 --> 00:59:00,880

the significance of it all max is going

1345

00:59:03,829 --> 00:59:02,079

to do that to you

1346

00:59:06,470 --> 00:59:03,839

you know and and he's going to listen to

1347

00:59:10,470 --> 00:59:06,480

what you have to say

1348

00:59:12,630 --> 00:59:10,480

i will never be able to thank max enough

1349

00:59:14,470 --> 00:59:12,640

for you know he became a friend of mine

1350

00:59:15,750 --> 00:59:14,480

because i interviewed him twice for the

1351

00:59:18,630 --> 00:59:15,760

principal

1352

00:59:20,549 --> 00:59:18,640

once in 2011 and then right after the

1353

00:59:21,430 --> 00:59:20,559

plant data came out and the axis of evil

1354

00:59:23,270 --> 00:59:21,440

became

1355

00:59:25,349 --> 00:59:23,280

you know it was completely confirmed

1356

00:59:26,549 --> 00:59:25,359

okay you have to understand when i made

1357

00:59:29,670 --> 00:59:26,559

the principle i'd

1358

00:59:30,789 --> 00:59:29,680

bet to film on the fact that planck

1359

00:59:33,910 --> 00:59:30,799

would confirm

1360

00:59:37,430 --> 00:59:33,920

this amazing axis across the

1361

00:59:39,190 --> 00:59:37,440

cosmos and at least 95

1362

00:59:40,870 --> 00:59:39,200

of the papers that were being published

1363

00:59:43,589 --> 00:59:40,880

while we were editing the film

1364

00:59:45,589 --> 00:59:43,599

were saying it would not be confirmed

1365

00:59:47,589 --> 00:59:45,599

and all the rumors were

1366

00:59:50,230 --> 00:59:47,599

that planck was going to falsify the

1367

00:59:53,190 --> 00:59:50,240

access it was a terrible feeling

1368

00:59:53,750 --> 00:59:53,200

except i remember i asked max i called

1369

00:59:57,829 --> 00:59:53,760

him up

1370

00:59:59,670 --> 00:59:57,839

and i said max i know you've got friends

1371

01:00:03,109 --> 00:59:59,680

on the plant team

1372

01:00:05,510 --> 01:00:03,119

is there anything you can tell me about

1373

01:00:06,549 --> 01:00:05,520

what you're hearing and he said well

1374

01:00:09,670 --> 01:00:06,559

rick i

1375

01:00:10,230 --> 01:00:09,680

do have friends and yes i couldn't tell

1376

01:00:13,349 --> 01:00:10,240

you but

1377

01:00:14,390 --> 01:00:13,359

unfortunately then i would have to kill

1378

01:00:20,069 --> 01:00:14,400

you

1379

01:00:22,069 --> 01:00:20,079

calling

1380

01:00:23,990 --> 01:00:22,079

and that's when i knew i i knew that we

1381

01:00:25,910 --> 01:00:24,000

were going to be okay

1382

01:00:27,750 --> 01:00:25,920

i knew that when planck released its

1383

01:00:27,990 --> 01:00:27,760

data we were going to still be in the

1384

01:00:28,950 --> 01:00:28,000

ball

1385

01:00:30,549 --> 01:00:28,960

game as a matter of fact we were going

1386

01:00:31,670 --> 01:00:30,559

to be the only film in the world and to

1387

01:00:33,349 --> 01:00:31,680

this day

1388

01:00:35,750 --> 01:00:33,359

we're the only documentary film out

1389

01:00:39,589 --> 01:00:35,760

there that really examines this

1390

01:00:42,069 --> 01:00:39,599

stunning discovery in cosmology

1391

01:00:43,670 --> 01:00:42,079

and i owe all that to max now on the

1392

01:00:45,190 --> 01:00:43,680

other side of the coin and i'll make

1393

01:00:47,750 --> 01:00:45,200

this brief because i know we're up

1394

01:00:51,349 --> 01:00:47,760

against a break

1395

01:00:54,309 --> 01:00:51,359

max like everybody else in academia

1396

01:00:56,470 --> 01:00:54,319

threw me under the bus without the

1397

01:00:58,950 --> 01:00:56,480

slightest hesitation

1398

01:01:00,870 --> 01:00:58,960

when the big controversy broke about the

1399

01:01:03,589 --> 01:01:00,880

principle

1400

01:01:05,270 --> 01:01:03,599

i never was able to get him to respond

1401

01:01:07,589 --> 01:01:05,280

to me again

1402

01:01:09,030 --> 01:01:07,599

after he was quoted in popular science

1403

01:01:12,789 --> 01:01:09,040

magazine as saying i had

1404

01:01:16,549 --> 01:01:12,799

cleverly tricked him

1405

01:01:20,470 --> 01:01:16,559

now max knows that's not true

1406

01:01:23,670 --> 01:01:20,480

he knows that i know that's not true

1407

01:01:24,630 --> 01:01:23,680

but never once after that article

1408

01:01:27,270 --> 01:01:24,640

appeared

1409

01:01:28,390 --> 01:01:27,280

did max tegmark ever again answer a

1410

01:01:31,829 --> 01:01:28,400

phone call

1411

01:01:32,150 --> 01:01:31,839

or an email from me and i find that to

1412

01:01:35,109 --> 01:01:32,160

be

1413

01:01:35,510 --> 01:01:35,119

very very sad indeed yeah that's that

1414

01:01:38,630 --> 01:01:35,520

that

1415

01:01:41,510 --> 01:01:38,640

is the world of physics you know

1416

01:01:42,470 --> 01:01:41,520

that everybody is fighting for every

1417

01:01:44,470 --> 01:01:42,480

dollar

1418

01:01:45,670 --> 01:01:44,480

everybody's uh fighting for the next

1419

01:01:49,430 --> 01:01:45,680

book deal uh

1420

01:01:52,549 --> 01:01:49,440

another series on pbs whatever it is

1421

01:01:54,549 --> 01:01:52,559

and uh and that and and i get that i

1422

01:01:58,950 --> 01:01:54,559

can't really fault max for that

1423

01:02:00,710 --> 01:01:58,960

because uh it's it's it's the culture

1424

01:02:02,710 --> 01:02:00,720

you know that's it he's he's no

1425

01:02:04,230 --> 01:02:02,720

different than anybody else

1426

01:02:06,069 --> 01:02:04,240

let's take our break right here rick

1427

01:02:08,150 --> 01:02:06,079

great conversation great start to the

1428

01:02:10,789 --> 01:02:08,160

show our guest tonight rick delano when

1429

01:02:12,870 --> 01:02:10,799

we come back after the break

1430

01:02:13,990 --> 01:02:12,880

we got to go straight to it right we

1431

01:02:17,430 --> 01:02:14,000

have to it

1432

01:02:18,069 --> 01:02:17,440

is dr wolfgang smith who was he the life

1433

01:02:20,549 --> 01:02:18,079

and times

1434

01:02:21,670 --> 01:02:20,559

and the new film which is incredible the

1435

01:02:24,309 --> 01:02:21,680

end of quantum

1436

01:02:25,510 --> 01:02:24,319

reality tonight rick delano executive

1437

01:02:28,309 --> 01:02:25,520

producer

1438

01:02:29,910 --> 01:02:28,319

of the film and the host of the end of

1439

01:02:31,510 --> 01:02:29,920

quantum reality i'm real jimmy church

1440

01:02:37,340 --> 01:02:31,520

this is fade to black stay with us we'll

1441

01:02:50,630 --> 01:02:48,470

[Music]

1442

01:02:53,029 --> 01:02:50,640

this is fake to black with jimmy church

1443

01:02:57,990 --> 01:02:53,039

on the game changer radio network

1444

01:03:00,470 --> 01:02:58,000

and kgra the global radio alliance

1445

01:03:01,510 --> 01:03:00,480

this is kgra digital broadcasting

1446

01:03:05,910 --> 01:03:01,520

station

1447

01:03:07,910 --> 01:03:05,920

salt lake city utah van buren arkansas

1448

01:03:09,589 --> 01:03:07,920

hello my name is billy carson and i'm a

1449

01:03:11,829 --> 01:03:09,599

best-selling author and the founder of

1450

01:03:13,750 --> 01:03:11,839

forbidden knowledge dot tv together with

1451
01:03:15,190 --> 01:03:13,760
my team we have built a all new contest

1452
01:03:16,789 --> 01:03:15,200
streaming tv platform

1453
01:03:18,710 --> 01:03:16,799
designed with every family member in

1454
01:03:19,990 --> 01:03:18,720
mind if you have ever wanted to travel

1455
01:03:21,510 --> 01:03:20,000
the world and attend lectures and

1456
01:03:22,630 --> 01:03:21,520
workshops from your favorite speakers

1457
01:03:25,270 --> 01:03:22,640
but weren't able to

1458
01:03:25,910 --> 01:03:25,280
look no further forbidden knowledge dot

1459
01:03:27,589 --> 01:03:25,920
tv

1460
01:03:29,510 --> 01:03:27,599
there are dozens of workshops and

1461
01:03:31,589 --> 01:03:29,520
lectures from speakers you know and love

1462
01:03:33,510 --> 01:03:31,599
we have also included amazing categories

1463
01:03:35,270 --> 01:03:33,520

to assure that your consciousness is

1464

01:03:35,990 --> 01:03:35,280

entertained and elevating on a daily

1465

01:03:38,069 --> 01:03:36,000

basis

1466

01:03:39,190 --> 01:03:38,079

amazing interviews ancient history

1467

01:03:41,270 --> 01:03:39,200

ascension knowledge

1468

01:03:42,390 --> 01:03:41,280

wisdom teachings documentaries

1469

01:03:44,630 --> 01:03:42,400

conspiracies

1470

01:03:47,349 --> 01:03:44,640

mysteries health and fitness conscious

1471

01:03:47,910 --> 01:03:47,359

cooking meditations finance yoga and so

1472

01:03:49,910 --> 01:03:47,920

much more

1473

01:03:51,109 --> 01:03:49,920

to start your free trial on any mobile

1474

01:03:53,750 --> 01:03:51,119

device or computer

1475

01:03:54,309 --> 01:03:53,760

surf to forbidden knowledge dot tv

1476

01:03:56,309 --> 01:03:54,319

that's

1477

01:03:58,630 --> 01:03:56,319

forbidden knowledge with the number four

1478

01:04:03,910 --> 01:03:58,640

forbidden knowledge dot tv

1479

01:04:09,510 --> 01:04:07,109

listen i know and you know that you've

1480

01:04:11,670 --> 01:04:09,520

always wanted your first crystal skull

1481

01:04:13,670 --> 01:04:11,680

or maybe you're a collector just like me

1482

01:04:16,309 --> 01:04:13,680

but you just don't know where to go

1483

01:04:18,910 --> 01:04:16,319

to find the real thing then i met

1484

01:04:20,309 --> 01:04:18,920

carolyn ford over at einstein the

1485

01:04:22,789 --> 01:04:20,319

crystalskull.com

1486

01:04:24,789 --> 01:04:22,799

carolyn is the guardian of einstein one

1487

01:04:26,309 --> 01:04:24,799

of the most respected ancient crystal

1488

01:04:27,990 --> 01:04:26,319

skulls in the world

1489

01:04:29,829 --> 01:04:28,000

all of her unique skulls have been

1490

01:04:31,910 --> 01:04:29,839

imprinted sitting with einstein

1491

01:04:34,470 --> 01:04:31,920

in his sacred lodge and are carved from

1492

01:04:36,630 --> 01:04:34,480

the finest gemstone and materials

1493

01:04:38,710 --> 01:04:36,640

imprinting is the process of receiving

1494

01:04:41,750 --> 01:04:38,720

the ancient wisdom from the master

1495

01:04:44,150 --> 01:04:41,760

skull or master computer einstein

1496

01:04:45,910 --> 01:04:44,160

the ancient crystal skull to see

1497

01:04:48,630 --> 01:04:45,920

carolyn's current collection of crystal

1498

01:04:51,029 --> 01:04:48,640

skulls just visit her store at einstein

1499

01:04:52,789 --> 01:04:51,039

the crystalskull.com or click on the

1500

01:04:55,270 --> 01:04:52,799

banner over on our site

1501
01:04:57,270 --> 01:04:55,280
don't forget to use the promo code jimmy

1502
01:04:59,750 --> 01:04:57,280
at checkout to receive 10

1503
01:05:00,549 --> 01:04:59,760
off of your order today that's promo

1504
01:05:03,109 --> 01:05:00,559
code

1505
01:05:04,390 --> 01:05:03,119
jimmy finding your first or next crystal

1506
01:05:09,829 --> 01:05:04,400
skull is easy

1507
01:05:11,990 --> 01:05:09,839
just visit einstein the crystalskull.com

1508
01:05:12,870 --> 01:05:12,000
when you take the beans from central

1509
01:05:15,190 --> 01:05:12,880
america

1510
01:05:15,910 --> 01:05:15,200
with dashes of indonesian and african

1511
01:05:18,150 --> 01:05:15,920
mixed in

1512
01:05:19,510 --> 01:05:18,160
and then roasted to the dark side of

1513
01:05:22,710 --> 01:05:19,520

fade to black

1514

01:05:25,670 --> 01:05:22,720

you create the ultimate brew of fringe

1515

01:05:27,349 --> 01:05:25,680

introducing the fade to black blend from

1516

01:05:30,390 --> 01:05:27,359

river moon coffee

1517

01:05:32,470 --> 01:05:30,400

yes river moon's darkest customized

1518

01:05:35,670 --> 01:05:32,480

roast was created for the love

1519

01:05:38,470 --> 01:05:35,680

of fade to black the alchemy of

1520

01:05:41,750 --> 01:05:38,480

masterful roasting and smoking the beans

1521

01:05:44,789 --> 01:05:41,760

is in every sip of this full-bodied dark

1522

01:05:47,349 --> 01:05:44,799

java i need my coffee doc

1523

01:05:48,309 --> 01:05:47,359

deep with distinct bittersweet chocolate

1524

01:05:50,870 --> 01:05:48,319

highlights

1525

01:05:52,870 --> 01:05:50,880

just like the bunker leaning further

1526

01:05:55,510 --> 01:05:52,880

into the darkness of the roast

1527

01:05:56,390 --> 01:05:55,520

is fade to black blend from river moon

1528

01:05:58,190 --> 01:05:56,400

coffee

1529

01:06:00,150 --> 01:05:58,200

just click on the banner at

1530

01:06:00,549 --> 01:06:00,160

jimmychurchradio.com and use the promo

1531

01:06:05,029 --> 01:06:00,559

code

1532

01:06:09,349 --> 01:06:05,039

f2b blend for 15 off of your order today

1533

01:06:15,190 --> 01:06:10,789

and you're listening to my main man

1534

01:06:17,109 --> 01:06:15,200

jimmy church on jimmychurchradio.com

1535

01:06:19,029 --> 01:06:17,119

hi this is ray sobs here repping the

1536

01:06:19,589 --> 01:06:19,039

planet and you're listening to my good

1537

01:06:22,470 --> 01:06:19,599

friend

1538

01:06:25,190 --> 01:06:22,480

jimmy church fade to black on the game

1539

01:06:28,309 --> 01:06:25,200

changer network and the kgra digital

1540

01:06:30,470 --> 01:06:28,319

broadcast station

1541

01:06:32,549 --> 01:06:30,480

this is toby kebbel you're listening to

1542

01:06:35,589 --> 01:06:32,559

jimmy jimmychurchradio.com

1543

01:06:37,829 --> 01:06:35,599

don't hurt me jimmy i'm only little hey

1544

01:06:38,150 --> 01:06:37,839

i'm adrian grenier and this is ari gold

1545

01:06:41,430 --> 01:06:38,160

we're

1546

01:06:45,430 --> 01:06:43,750

we are of the honey hey i'm adrian

1547

01:06:47,510 --> 01:06:45,440

grenier and i'm ari gold

1548

01:06:49,109 --> 01:06:47,520

we're the honey brothers and you're

1549

01:06:51,910 --> 01:06:49,119

listening to jimmy church

1550

01:06:53,670 --> 01:06:51,920

the revolution this is jimmy church of

1551
01:06:55,910 --> 01:06:53,680
fade to black and you can become an

1552
01:06:56,870 --> 01:06:55,920
official fate or not by just going to

1553
01:07:01,109 --> 01:06:56,880
our membership

1554
01:07:03,190 --> 01:07:01,119
section at jimmychurchradio.com

1555
01:07:04,630 --> 01:07:03,200
hello this is serena wright taylor from

1556
01:07:06,549 --> 01:07:04,640
conscious life expo

1557
01:07:07,670 --> 01:07:06,559
and you're listening to fade to black

1558
01:07:09,910 --> 01:07:07,680
with jimmy church

1559
01:07:12,029 --> 01:07:09,920
who holds the lucky pony record for the

1560
01:07:15,670 --> 01:07:12,039
best astrological chart since

1561
01:07:17,349 --> 01:07:15,680
1963. story

1562
01:07:18,950 --> 01:07:17,359
this is micah hanks of the grealian

1563
01:07:20,470 --> 01:07:18,960

report and you're listening to jimmy

1564

01:07:22,230 --> 01:07:20,480

church on fade to black

1565

01:07:24,150 --> 01:07:22,240

across the globe on the game changer

1566

01:07:30,650 --> 01:07:24,160

radio network and the one and only

1567

01:07:46,950 --> 01:07:39,860

[Music]

1568

01:07:50,150 --> 01:07:48,789

all right all right welcome back fade to

1569

01:07:52,069 --> 01:07:50,160

black i'm your host jimmy church tonight

1570

01:07:54,150 --> 01:07:52,079

rick delano is here it's going to be a

1571

01:07:55,829 --> 01:07:54,160

great conversation

1572

01:07:57,589 --> 01:07:55,839

talking about his new film the end of

1573

01:07:59,349 --> 01:07:57,599

quantum reality and

1574

01:08:00,710 --> 01:07:59,359

for the bunker cam i was just showing

1575

01:08:03,829 --> 01:08:00,720

off everybody i've got a

1576

01:08:07,029 --> 01:08:03,839

foot of hair it's still

1577

01:08:08,870 --> 01:08:07,039

growing uh thanks to to the pandemic and

1578

01:08:12,150 --> 01:08:08,880

uh there you go

1579

01:08:14,390 --> 01:08:12,160

i've had one haircut since january

1580

01:08:16,229 --> 01:08:14,400

and uh it's feeling good i'm going back

1581

01:08:19,510 --> 01:08:16,239

to my rock and roll roots

1582

01:08:23,189 --> 01:08:19,520

uh literally literally um

1583

01:08:26,950 --> 01:08:23,199

what a great film and when uh

1584

01:08:28,870 --> 01:08:26,960

when it came up uh uh it was on amazon

1585

01:08:32,149 --> 01:08:28,880

and it's there it's a new release

1586

01:08:33,829 --> 01:08:32,159

and i click on the description and i'm

1587

01:08:35,430 --> 01:08:33,839

when it comes to film i love science

1588

01:08:36,950 --> 01:08:35,440

fiction and all of that you know that's

1589

01:08:40,789 --> 01:08:36,960

that's that's cool but

1590

01:08:42,070 --> 01:08:40,799

my heart longs for uh black and white

1591

01:08:44,070 --> 01:08:42,080

pragmatic

1592

01:08:45,269 --> 01:08:44,080

documentaries just give me the knowledge

1593

01:08:47,749 --> 01:08:45,279

i want to learn something

1594

01:08:49,269 --> 01:08:47,759

right and i and it pops up and i read

1595

01:08:50,870 --> 01:08:49,279

the description i was like holy crap

1596

01:08:53,269 --> 01:08:50,880

this is impossible

1597

01:08:54,229 --> 01:08:53,279

it's like the perfect film right so

1598

01:08:57,349 --> 01:08:54,239

anyway

1599

01:08:59,189 --> 01:08:57,359

i'm gonna start here um and that

1600

01:09:00,789 --> 01:08:59,199

is the beginning of the film i'm gonna

1601
01:09:04,309 --> 01:09:00,799
throw you under the bus a little bit

1602
01:09:05,110 --> 01:09:04,319
but um uh i'm listening to the opening

1603
01:09:07,590 --> 01:09:05,120
music

1604
01:09:09,749 --> 01:09:07,600
and i love production but i'm listening

1605
01:09:12,550 --> 01:09:09,759
listening to the vocals and

1606
01:09:12,789 --> 01:09:12,560
uh the bass guitar the lines the melody

1607
01:09:15,829 --> 01:09:12,799
and

1608
01:09:17,990 --> 01:09:15,839
a what a cool

1609
01:09:20,950 --> 01:09:18,000
tune all right so anyway i get into the

1610
01:09:24,070 --> 01:09:20,960
film i'll watch it i get to the credits

1611
01:09:28,470 --> 01:09:24,080
and you sing you second wrote

1612
01:09:31,030 --> 01:09:28,480
uh the song um wow

1613
01:09:32,709 --> 01:09:31,040

that's it uh you know i i hope you're

1614

01:09:36,070 --> 01:09:32,719

not blushing right now but

1615

01:09:37,510 --> 01:09:36,080

uh man and i so i want everybody to know

1616

01:09:38,149 --> 01:09:37,520

when you go and watch the film that's

1617

01:09:40,550 --> 01:09:38,159

rick at the

1618

01:09:42,070 --> 01:09:40,560

at the beginning of the film love the

1619

01:09:43,749 --> 01:09:42,080

lyrics by the way

1620

01:09:46,709 --> 01:09:43,759

you got everybody in there you got

1621

01:09:53,430 --> 01:09:46,719

einstein

1622

01:09:55,350 --> 01:09:53,440

um yeah yeah it's really funny you

1623

01:09:57,669 --> 01:09:55,360

mentioned that jimmy i

1624

01:09:59,430 --> 01:09:57,679

i always you know the bottom line is

1625

01:10:02,229 --> 01:09:59,440

it's really true we

1626

01:10:02,709 --> 01:10:02,239

we realized pretty early on in editing

1627

01:10:05,030 --> 01:10:02,719

that we

1628

01:10:06,390 --> 01:10:05,040

really needed an original score for this

1629

01:10:08,870 --> 01:10:06,400

thing right

1630

01:10:11,430 --> 01:10:08,880

and uh there's this guy out there who

1631

01:10:16,950 --> 01:10:11,440

was willing to do it for a really really

1632

01:10:20,070 --> 01:10:16,960

really good price and that was me

1633

01:10:23,510 --> 01:10:20,080

it's perfect um and well done

1634

01:10:25,430 --> 01:10:23,520

nobody uh unless they last to the

1635

01:10:28,709 --> 01:10:25,440

credits they're not going to know that

1636

01:10:29,990 --> 01:10:28,719

right and and i thought as i was

1637

01:10:32,470 --> 01:10:30,000

listening to i thought this is

1638

01:10:33,669 --> 01:10:32,480

this is like a hit song that i missed

1639

01:10:36,229 --> 01:10:33,679

somewhere

1640

01:10:38,070 --> 01:10:36,239

and then i started listening to the

1641

01:10:39,030 --> 01:10:38,080

lyrics i went no this is written for the

1642

01:10:41,030 --> 01:10:39,040

film

1643

01:10:42,790 --> 01:10:41,040

okay so i wanted to make sure in the end

1644

01:10:44,790 --> 01:10:42,800

that i could find out who that artist

1645

01:10:48,229 --> 01:10:44,800

was so i could have him on the show

1646

01:10:50,950 --> 01:10:48,239

and i i i pulled that one off um

1647

01:10:51,590 --> 01:10:50,960

but okay so let's let's get back into

1648

01:10:55,110 --> 01:10:51,600

this

1649

01:10:56,550 --> 01:10:55,120

one of the things that not only is

1650

01:10:59,990 --> 01:10:56,560

discussed a lot on this

1651
01:11:02,709 --> 01:11:00,000
show but every physicist

1652
01:11:04,630 --> 01:11:02,719
i have watched just like you right i've

1653
01:11:08,229 --> 01:11:04,640
watched all the presentations

1654
01:11:11,030 --> 01:11:08,239
uh going back decades i've watched uh

1655
01:11:11,990 --> 01:11:11,040
all of the uh online courses i've read

1656
01:11:14,229 --> 01:11:12,000
all the books

1657
01:11:16,550 --> 01:11:14,239
i've listened to all of the interviews

1658
01:11:19,590 --> 01:11:16,560
and everybody gets into

1659
01:11:22,070 --> 01:11:19,600
schrodinger's cat which ends up

1660
01:11:23,590 --> 01:11:22,080
for most people confusing them right

1661
01:11:26,709 --> 01:11:23,600
just the concept alone

1662
01:11:31,350 --> 01:11:26,719
is is is crazy but um

1663
01:11:35,430 --> 01:11:31,360

it is what uh it's the go-to subject

1664

01:11:37,910 --> 01:11:35,440

for all physicists and it is also

1665

01:11:39,910 --> 01:11:37,920

uh would i be wrong in saying that it is

1666

01:11:41,990 --> 01:11:39,920

the central focus of the film in in a

1667

01:11:45,350 --> 01:11:42,000

very strange way

1668

01:11:48,390 --> 01:11:45,360

well you would be absolutely right uh

1669

01:11:51,830 --> 01:11:48,400

schroedinger's cat was just

1670

01:11:52,630 --> 01:11:51,840

irving schroedinger's way of trying to

1671

01:11:54,790 --> 01:11:52,640

make it

1672

01:11:56,229 --> 01:11:54,800

possible for the average person to

1673

01:11:59,270 --> 01:11:56,239

understand

1674

01:12:02,630 --> 01:11:59,280

the complete perplexity

1675

01:12:05,590 --> 01:12:02,640

that the physicists were facing

1676

01:12:06,550 --> 01:12:05,600

when they discovered quantum mechanics

1677

01:12:08,630 --> 01:12:06,560

because

1678

01:12:10,310 --> 01:12:08,640

and and this is this is i hope i can get

1679

01:12:11,110 --> 01:12:10,320

this across to your audience because

1680

01:12:14,229 --> 01:12:11,120

this is the

1681

01:12:16,790 --> 01:12:14,239

whole ballgame this is why quantum

1682

01:12:17,750 --> 01:12:16,800

mechanics remains to this day

1683

01:12:21,350 --> 01:12:17,760

essentially

1684

01:12:25,030 --> 01:12:21,360

impossible for anyone to believe

1685

01:12:28,390 --> 01:12:25,040

the only reason anyone believes it

1686

01:12:31,750 --> 01:12:28,400

is because it works perfectly

1687

01:12:32,390 --> 01:12:31,760

our phones our computers our entire

1688

01:12:35,430 --> 01:12:32,400

world

1689

01:12:38,470 --> 01:12:35,440

works because quantum mechanics

1690

01:12:41,350 --> 01:12:38,480

is the most accurate physical theory in

1691

01:12:45,510 --> 01:12:41,360

the history of humanity

1692

01:12:47,350 --> 01:12:45,520

but what it tells us about the nature of

1693

01:12:50,630 --> 01:12:47,360

reality

1694

01:12:54,070 --> 01:12:50,640

is so shocking that 100

1695

01:12:57,189 --> 01:12:54,080

years further in the physicists

1696

01:13:00,550 --> 01:12:57,199

are utterly literally being driven

1697

01:13:02,310 --> 01:13:00,560

insane by the implications

1698

01:13:05,030 --> 01:13:02,320

so schrodinger said how can i get this

1699

01:13:06,470 --> 01:13:05,040

across to people and he thought of this

1700

01:13:11,270 --> 01:13:06,480

idea

1701
01:13:14,790 --> 01:13:11,280
okay if we assume

1702
01:13:17,750 --> 01:13:14,800
that physics has been correct

1703
01:13:19,669 --> 01:13:17,760
over the past 400 years in its

1704
01:13:23,390 --> 01:13:19,679
fundamental assumption

1705
01:13:26,630 --> 01:13:23,400
that we call reductionism

1706
01:13:29,510 --> 01:13:26,640
reductionism is the fundamental

1707
01:13:31,110 --> 01:13:29,520
magic bullet that has led to the

1708
01:13:34,790 --> 01:13:31,120
scientific revolution and

1709
01:13:37,990 --> 01:13:34,800
reductionism is just this it is the

1710
01:13:41,110 --> 01:13:38,000
idea that if you take

1711
01:13:44,550 --> 01:13:41,120
any object in the world and

1712
01:13:49,030 --> 01:13:44,560
break it down to its smallest

1713
01:13:53,270 --> 01:13:49,040

possible parts and you discover the laws

1714

01:13:56,550 --> 01:13:53,280

governing those smallest possible parts

1715

01:14:00,390 --> 01:13:56,560

you will have described every larger

1716

01:14:03,350 --> 01:14:00,400

object composed of those parts

1717

01:14:04,709 --> 01:14:03,360

this is reductionism this is the idea

1718

01:14:07,189 --> 01:14:04,719

that what physics is

1719

01:14:08,709 --> 01:14:07,199

all about is getting down to the bottom

1720

01:14:10,950 --> 01:14:08,719

of the world

1721

01:14:13,270 --> 01:14:10,960

getting down to these fundamental

1722

01:14:15,910 --> 01:14:13,280

particles as they call them

1723

01:14:18,149 --> 01:14:15,920

and discovering the laws that govern

1724

01:14:21,590 --> 01:14:18,159

their behavior

1725

01:14:25,830 --> 01:14:21,600

theoretically if you can do that

1726

01:14:29,189 --> 01:14:25,840

you will be able in turn to describe all

1727

01:14:30,630 --> 01:14:29,199

of the behavior of larger objects in the

1728

01:14:32,709 --> 01:14:30,640

world

1729

01:14:36,550 --> 01:14:32,719

and this worked beautifully all the way

1730

01:14:44,390 --> 01:14:40,470

even einstein is essentially uh

1731

01:14:47,669 --> 01:14:44,400

compatible with this idea of a reduction

1732

01:14:51,189 --> 01:14:47,679

down to the simplest possible components

1733

01:14:55,110 --> 01:14:51,199

of reality quantum mechanics

1734

01:14:58,630 --> 01:14:55,120

blows reductionism into tiny

1735

01:15:02,790 --> 01:14:58,640

little smithereens it is the

1736

01:15:03,110 --> 01:15:02,800

end of the attempt to explain the world

1737

01:15:06,470 --> 01:15:03,120

by

1738

01:15:09,430 --> 01:15:06,480

getting down to the bottom of the world

1739

01:15:09,990 --> 01:15:09,440

defining these fundamental particles and

1740

01:15:12,229 --> 01:15:10,000

deriving

1741

01:15:13,590 --> 01:15:12,239

the rest of reality from them and here's

1742

01:15:16,070 --> 01:15:13,600

why

1743

01:15:17,750 --> 01:15:16,080

let's assume for the sake of argument

1744

01:15:21,590 --> 01:15:17,760

the reductionism is true

1745

01:15:22,950 --> 01:15:21,600

that a cat for example is fundamentally

1746

01:15:26,310 --> 01:15:22,960

nothing other than

1747

01:15:27,270 --> 01:15:26,320

a collection of quantum particles that's

1748

01:15:31,590 --> 01:15:27,280

what a cat

1749

01:15:34,070 --> 01:15:31,600

is if we assume that to be true

1750

01:15:35,189 --> 01:15:34,080

then of course quantum mechanics will

1751

01:15:38,550 --> 01:15:35,199

apply

1752

01:15:41,270 --> 01:15:38,560

with all of the magnificent accuracy

1753

01:15:42,390 --> 01:15:41,280

that it has been shown to apply to

1754

01:15:45,270 --> 01:15:42,400

electrons

1755

01:15:45,910 --> 01:15:45,280

and and sub-atomic particles it will

1756

01:15:48,950 --> 01:15:45,920

apply

1757

01:15:49,910 --> 01:15:48,960

just as accurately to a collection of

1758

01:15:53,350 --> 01:15:49,920

those particles

1759

01:15:55,110 --> 01:15:53,360

like a cat okay if we assume that to be

1760

01:15:58,790 --> 01:15:55,120

true

1761

01:15:59,830 --> 01:15:58,800

then we take a cat and we put that cat

1762

01:16:02,870 --> 01:15:59,840

in a box

1763

01:16:06,229 --> 01:16:02,880

so that it cannot be observed or

1764

01:16:08,550 --> 01:16:06,239

measured if it cannot be observed

1765

01:16:10,870 --> 01:16:08,560

or measured and it is just a collection

1766

01:16:13,430 --> 01:16:10,880

of quantum particles then guess what

1767

01:16:14,229 --> 01:16:13,440

Schrodinger's wave equation will

1768

01:16:17,750 --> 01:16:14,239

describe

1769

01:16:19,669 --> 01:16:17,760

that cat perfectly to such degrees of

1770

01:16:20,070 --> 01:16:19,679

accuracy that no physical theory has

1771

01:16:23,110 --> 01:16:20,080

ever

1772

01:16:25,030 --> 01:16:23,120

even come close so Schrodinger

1773

01:16:27,189 --> 01:16:25,040

continues

1774

01:16:29,350 --> 01:16:27,199

if we take this cat and put it in the

1775

01:16:30,390 --> 01:16:29,360

box so that cannot be observed or

1776

01:16:34,149 --> 01:16:30,400

measured

1777

01:16:37,350 --> 01:16:34,159

we know that cat is described by a wave

1778

01:16:38,229 --> 01:16:37,360

function we know that wave function in

1779

01:16:41,910 --> 01:16:38,239

turn

1780

01:16:44,709 --> 01:16:41,920

allows that cat to be in many different

1781

01:16:46,709 --> 01:16:44,719

states at the same time this is the

1782

01:16:49,430 --> 01:16:46,719

fundamental weirdness

1783

01:16:50,310 --> 01:16:49,440

of quantum mechanics when you do quantum

1784

01:16:53,669 --> 01:16:50,320

mechanics

1785

01:16:55,669 --> 01:16:53,679

the mathematics requires you to admit

1786

01:16:57,669 --> 01:16:55,679

that the quantum system can be in many

1787

01:16:59,990 --> 01:16:57,679

different places at the same time

1788

01:17:00,790 --> 01:17:00,000

can have many different momenta at the

1789

01:17:03,990 --> 01:17:00,800

same time

1790

01:17:04,870 --> 01:17:04,000

can have many different states at the

1791

01:17:08,630 --> 01:17:04,880

same

1792

01:17:11,350 --> 01:17:08,640

freaking time now if that's

1793

01:17:13,669 --> 01:17:11,360

true then when we put that cat in the

1794

01:17:15,510 --> 01:17:13,679

box that cat is in a

1795

01:17:17,910 --> 01:17:15,520

super position they call it a

1796

01:17:21,510 --> 01:17:17,920

superposition of states

1797

01:17:23,350 --> 01:17:21,520

one of those states equates to the cat

1798

01:17:25,750 --> 01:17:23,360

being alive

1799

01:17:26,950 --> 01:17:25,760

and one of those states equates to the

1800

01:17:29,990 --> 01:17:26,960

cat being dead

1801

01:17:33,590 --> 01:17:30,000

so let's put a let's put a geiger

1802

01:17:36,870 --> 01:17:33,600

counter in there and we'll put a

1803

01:17:38,229 --> 01:17:36,880

we'll put a a a radioactive element in

1804

01:17:41,669 --> 01:17:38,239

the box

1805

01:17:44,870 --> 01:17:41,679

and if that geiger counter registers

1806

01:17:47,430 --> 01:17:44,880

an atomic decay

1807

01:17:49,110 --> 01:17:47,440

that geiger counter is going to click

1808

01:17:51,030 --> 01:17:49,120

and that's going to in turn

1809

01:17:53,830 --> 01:17:51,040

release a hammer and that's going to

1810

01:17:57,830 --> 01:17:53,840

crack open a cyanide jar

1811

01:18:00,950 --> 01:17:57,840

and that's going to kill the cat okay

1812

01:18:04,070 --> 01:18:00,960

point is that until you

1813

01:18:07,030 --> 01:18:04,080

open that box the cat

1814

01:18:07,590 --> 01:18:07,040

is described quantum mechanically as

1815

01:18:10,870 --> 01:18:07,600

being

1816

01:18:12,709 --> 01:18:10,880

in a superposition of states

1817

01:18:15,350 --> 01:18:12,719

there is one superposition that

1818

01:18:17,510 --> 01:18:15,360

corresponds to the cat being alive

1819

01:18:19,669 --> 01:18:17,520

and there is one that corresponds to the

1820

01:18:22,910 --> 01:18:19,679

cat being dead

1821

01:18:26,470 --> 01:18:22,920

and the only way to collapse those

1822

01:18:29,669 --> 01:18:26,480

superpositions the only way to collapse

1823

01:18:30,790 --> 01:18:29,679

that wave function is to conduct a

1824

01:18:35,270 --> 01:18:30,800

measurement or an

1825

01:18:37,669 --> 01:18:35,280

observation you have to open up the box

1826

01:18:39,110 --> 01:18:37,679

that collapses the wave function of the

1827

01:18:41,990 --> 01:18:39,120

cat down to

1828

01:18:43,350 --> 01:18:42,000

one specific value the superpositions

1829

01:18:46,470 --> 01:18:43,360

disappear

1830

01:18:49,750 --> 01:18:46,480

and only one state is left

1831

01:18:52,830 --> 01:18:49,760

and schroedinger's point is what was the

1832

01:18:54,229 --> 01:18:52,840

state of that cat before i opened the

1833

01:18:57,430 --> 01:18:54,239

box

1834

01:19:00,550 --> 01:18:57,440

mechanics tells us that the cat was both

1835

01:19:03,430 --> 01:19:00,560

dead and alive

1836

01:19:03,750 --> 01:19:03,440

until that box was open and schroedinger

1837

01:19:07,030 --> 01:19:03,760

says

1838

01:19:10,709 --> 01:19:07,040

this is ridiculous this is absurd

1839

01:19:13,030 --> 01:19:10,719

this cannot possibly be an accurate and

1840

01:19:16,790 --> 01:19:13,040

truthful description of reality

1841

01:19:19,990 --> 01:19:16,800

however it is absolutely certain

1842

01:19:21,430 --> 01:19:20,000

that it is an accurate description of

1843

01:19:23,430 --> 01:19:21,440

the electrons

1844

01:19:24,870 --> 01:19:23,440

and subatomic particles that make up

1845

01:19:28,470 --> 01:19:24,880

that cat

1846

01:19:31,110 --> 01:19:28,480

so we have a paradox on the one hand

1847

01:19:33,110 --> 01:19:31,120

we know damned well that the cat was

1848

01:19:34,870 --> 01:19:33,120

either dead or alive before we opened

1849

01:19:38,390 --> 01:19:34,880

that box

1850

01:19:40,550 --> 01:19:38,400

but we also know that if the cat is

1851
01:19:41,910 --> 01:19:40,560
nothing other than a collection of

1852
01:19:44,950 --> 01:19:41,920
quantum particles

1853
01:19:47,030 --> 01:19:44,960
then it was both dead and alive that is

1854
01:19:50,149 --> 01:19:47,040
the fundamental paradox

1855
01:19:52,310 --> 01:19:50,159
of quantum reality why is it that the

1856
01:19:54,790 --> 01:19:52,320
world that we live in

1857
01:19:56,550 --> 01:19:54,800
we don't see cats multi-located we don't

1858
01:19:59,270 --> 01:19:56,560
see dead in the live cats

1859
01:20:01,189 --> 01:19:59,280
we don't see billiard balls in 17 000

1860
01:20:02,709 --> 01:20:01,199
different locations and a sort of cloud

1861
01:20:04,950 --> 01:20:02,719
around the pool table

1862
01:20:06,390 --> 01:20:04,960
that's not the world we live in that's

1863
01:20:10,870 --> 01:20:06,400

not the world

1864

01:20:14,149 --> 01:20:10,880

as we perceive it so what gives here

1865

01:20:15,669 --> 01:20:14,159

is it possible that we are simply being

1866

01:20:19,030 --> 01:20:15,679

subjected to some kind of

1867

01:20:19,350 --> 01:20:19,040

drastic cosmic conspiracy that that in

1868

01:20:21,750 --> 01:20:19,360

fact

1869

01:20:23,510 --> 01:20:21,760

in some universe the cat is dead all the

1870

01:20:24,550 --> 01:20:23,520

time in another universe the cat is

1871

01:20:26,709 --> 01:20:24,560

alive all the time

1872

01:20:28,070 --> 01:20:26,719

and when we open that box we split the

1873

01:20:30,390 --> 01:20:28,080

universe off

1874

01:20:31,270 --> 01:20:30,400

into one particular version of the

1875

01:20:33,470 --> 01:20:31,280

universe

1876

01:20:35,350 --> 01:20:33,480

that's how lost they are that's how

1877

01:20:38,470 --> 01:20:35,360

absolutely

1878

01:20:41,750 --> 01:20:38,480

lost one has to be

1879

01:20:46,070 --> 01:20:41,760

in order to hold on to this idea of

1880

01:20:49,110 --> 01:20:46,080

reductionism the other alternative

1881

01:20:52,070 --> 01:20:49,120

is even scarier for most people

1882

01:20:54,629 --> 01:20:52,080

the other alternative is that the world

1883

01:20:57,110 --> 01:20:54,639

does not reduce to the particles and

1884

01:20:59,270 --> 01:20:57,120

fields and equations of physics

1885

01:21:00,550 --> 01:20:59,280

that there is something actually

1886

01:21:04,390 --> 01:21:00,560

operative

1887

01:21:04,709 --> 01:21:04,400

in the world that yields the world that

1888

01:21:08,629 --> 01:21:04,719

we

1889

01:21:10,229 --> 01:21:08,639

live in and is superior is above in a

1890

01:21:12,470 --> 01:21:10,239

causative sense

1891

01:21:13,350 --> 01:21:12,480

the causation that collapses the wave

1892

01:21:16,070 --> 01:21:13,360

function

1893

01:21:17,430 --> 01:21:16,080

is not bubbling up from below as the

1894

01:21:21,270 --> 01:21:17,440

reductionist

1895

01:21:24,390 --> 01:21:21,280

theory would require but something above

1896

01:21:27,270 --> 01:21:24,400

that level this causation emanating from

1897

01:21:29,270 --> 01:21:27,280

above the level of quantum mechanics

1898

01:21:32,709 --> 01:21:29,280

that collapses the wave function

1899

01:21:35,590 --> 01:21:32,719

and yields the world in which every cat

1900

01:21:37,350 --> 01:21:35,600

is either dead or alive so the question

1901

01:21:41,030 --> 01:21:37,360

is real simple

1902

01:21:44,870 --> 01:21:41,040

is reality quantum in nature

1903

01:21:48,070 --> 01:21:44,880

or is reality not quantum in nature

1904

01:21:52,390 --> 01:21:50,870

this question is of such profound

1905

01:21:56,550 --> 01:21:52,400

importance

1906

01:22:00,550 --> 01:21:56,560

it is far it will determine the future

1907

01:22:03,430 --> 01:22:00,560

to a far greater extent than copernicus

1908

01:22:05,510 --> 01:22:03,440

changed the future with his heliocentric

1909

01:22:06,709 --> 01:22:05,520

theory that changed the entire picture

1910

01:22:08,550 --> 01:22:06,719

of the world

1911

01:22:11,430 --> 01:22:08,560

how we answer this question about

1912

01:22:12,310 --> 01:22:11,440

quantum reality will determine the kind

1913

01:22:14,229 --> 01:22:12,320

of world

1914

01:22:17,030 --> 01:22:14,239

that our children and their children

1915

01:22:19,270 --> 01:22:17,040

grow up in do we

1916

01:22:20,229 --> 01:22:19,280

do the physicists and the quantum

1917

01:22:23,270 --> 01:22:20,239

mechanics

1918

01:22:26,070 --> 01:22:23,280

side of things do they wield

1919

01:22:26,950 --> 01:22:26,080

too much power and before you answer

1920

01:22:32,470 --> 01:22:26,960

that

1921

01:22:35,910 --> 01:22:34,790

we and i'm talking about the status quo

1922

01:22:39,750 --> 01:22:35,920

the average person

1923

01:22:41,830 --> 01:22:39,760

right i can't interpret the algorithms i

1924

01:22:44,950 --> 01:22:41,840

can't interpret the math

1925

01:22:48,709 --> 01:22:44,960

uh we depend on the physicists

1926

01:22:52,390 --> 01:22:48,719

in these equations to represent those

1927

01:22:55,270 --> 01:22:52,400

to us in theatrics right to explain

1928

01:22:56,790 --> 01:22:55,280

what these uh what these numbers and

1929

01:22:59,430 --> 01:22:56,800

symbols mean

1930

01:23:01,510 --> 01:22:59,440

we don't know do they wield too much

1931

01:23:04,629 --> 01:23:01,520

power because of that

1932

01:23:05,030 --> 01:23:04,639

they absolutely do it it's analogous i

1933

01:23:09,030 --> 01:23:05,040

think

1934

01:23:11,189 --> 01:23:09,040

to um look at the world that we had

1935

01:23:13,910 --> 01:23:11,199

before the enlightenment

1936

01:23:16,709 --> 01:23:13,920

the magic box in that world was the

1937

01:23:19,030 --> 01:23:16,719

catholic magisterium

1938

01:23:19,990 --> 01:23:19,040

the catholic church was it was in

1939

01:23:23,910 --> 01:23:20,000

possession of

1940

01:23:27,590 --> 01:23:23,920

oracular knowledge direct from

1941

01:23:31,350 --> 01:23:27,600

god and any question

1942

01:23:35,350 --> 01:23:31,360

that impinged upon the catholic

1943

01:23:39,189 --> 01:23:35,360

faith would be in solidly

1944

01:23:42,070 --> 01:23:39,199

uh ex-postulated punishable

1945

01:23:43,110 --> 01:23:42,080

right and the world would would operate

1946

01:23:45,189 --> 01:23:43,120

based on that

1947

01:23:46,229 --> 01:23:45,199

in other words that's where we went for

1948

01:23:49,750 --> 01:23:46,239

our answers

1949

01:23:53,110 --> 01:23:49,760

right now my question to you is

1950

01:23:54,390 --> 01:23:53,120

did they have too much power well i can

1951

01:23:56,310 --> 01:23:54,400

certainly think of

1952

01:23:57,750 --> 01:23:56,320

uh several people who would probably

1953

01:24:00,070 --> 01:23:57,760

argue that in fact they

1954

01:24:01,990 --> 01:24:00,080

did i think galileo would have something

1955

01:24:03,590 --> 01:24:02,000

to say about that i think he would and

1956

01:24:06,790 --> 01:24:03,600

and and certainly bruno

1957

01:24:08,550 --> 01:24:06,800

bruno bruno he actually got away

1958

01:24:11,270 --> 01:24:08,560

got got off pretty easy i mean he lived

1959

01:24:14,470 --> 01:24:11,280

in luxury apartments for a few years

1960

01:24:16,310 --> 01:24:14,480

bruno burned yes he got toasted yes

1961

01:24:19,510 --> 01:24:16,320

and so here's the thing now i have

1962

01:24:22,550 --> 01:24:19,520

looked at this very carefully and i have

1963

01:24:23,030 --> 01:24:22,560

i have my own very deep conclusions on

1964

01:24:26,390 --> 01:24:23,040

this

1965

01:24:29,270 --> 01:24:26,400

which i rigorously try to separate

1966

01:24:30,709 --> 01:24:29,280

from any of the work that i do right

1967

01:24:33,990 --> 01:24:30,719

here and right now

1968

01:24:37,669 --> 01:24:34,000

because at the end of the day

1969

01:24:41,990 --> 01:24:37,679

i have no right to insist that you

1970

01:24:44,629 --> 01:24:42,000

jimmy believe what i believe

1971

01:24:46,310 --> 01:24:44,639

because i tell you i'm sure i'm right

1972

01:24:49,189 --> 01:24:46,320

about it

1973

01:24:50,550 --> 01:24:49,199

i can be as convinced as possible that i

1974

01:24:52,870 --> 01:24:50,560

am right

1975

01:24:54,149 --> 01:24:52,880

the problem comes when i try to say

1976

01:24:58,149 --> 01:24:54,159

jimmy

1977

01:25:00,550 --> 01:24:58,159

for your own good now

1978

01:25:01,870 --> 01:25:00,560

going to have to ask you to sign this

1979

01:25:05,270 --> 01:25:01,880

piece of paper

1980

01:25:08,390 --> 01:25:05,280

unfortunately we no longer

1981

01:25:12,070 --> 01:25:08,400

live in a world

1982

01:25:15,189 --> 01:25:12,080

where that's possible and

1983

01:25:18,310 --> 01:25:15,199

the reaction against that was precisely

1984

01:25:21,430 --> 01:25:18,320

enlightenment science and

1985

01:25:23,110 --> 01:25:21,440

the scientists said we will no longer

1986

01:25:27,750 --> 01:25:23,120

accept

1987

01:25:31,350 --> 01:25:27,760

on authority answers to questions

1988

01:25:34,870 --> 01:25:31,360

which we propose can be better answered

1989

01:25:37,910 --> 01:25:34,880

by experimental tests

1990

01:25:38,870 --> 01:25:37,920

that is the most radical idea since the

1991

01:25:41,910 --> 01:25:38,880

gospels

1992

01:25:45,750 --> 01:25:41,920

and the simplest and the simplest

1993

01:25:49,510 --> 01:25:45,760

right and here's here's the irony jimmy

1994

01:25:53,189 --> 01:25:49,520

the pendulum has swung all the way

1995

01:25:55,270 --> 01:25:53,199

over to the other extreme our miracles

1996

01:25:59,270 --> 01:25:55,280

come from laboratories

1997

01:26:02,629 --> 01:25:59,280

our oracles are the scientists

1998

01:26:04,310 --> 01:26:02,639

and what have they done well quite

1999

01:26:07,830 --> 01:26:04,320

predictably

2000

01:26:08,950 --> 01:26:07,840

what they have done is they have created

2001
01:26:11,910 --> 01:26:08,960
for themselves a

2002
01:26:12,790 --> 01:26:11,920
monumental propaganda apparatus to make

2003
01:26:16,470 --> 01:26:12,800
sure

2004
01:26:21,270 --> 01:26:16,480
nobody questions them especially on

2005
01:26:25,350 --> 01:26:21,280
fundamental issues issues like

2006
01:26:28,390 --> 01:26:25,360
where does the universe come from right

2007
01:26:30,950 --> 01:26:28,400
how does the universe operate

2008
01:26:32,310 --> 01:26:30,960
these are questions which have become

2009
01:26:35,910 --> 01:26:32,320
the province

2010
01:26:36,550 --> 01:26:35,920
of the enlightenment research project

2011
01:26:40,950 --> 01:26:36,560
and

2012
01:26:43,669 --> 01:26:40,960
not so much of a secret

2013
01:26:45,910 --> 01:26:43,679

for most people it still is but i can

2014

01:26:48,229 --> 01:26:45,920

tell you for sure

2015

01:26:50,870 --> 01:26:48,239

that the world story that the

2016

01:26:52,550 --> 01:26:50,880

enlightenment has with fanatical

2017

01:26:55,350 --> 01:26:52,560

brilliance

2018

01:26:56,229 --> 01:26:55,360

developed over the past four centuries

2019

01:27:04,310 --> 01:26:56,239

has

2020

01:27:07,590 --> 01:27:04,320

it no longer coheres we

2021

01:27:10,550 --> 01:27:07,600

do not have in the

2022

01:27:11,830 --> 01:27:10,560

materialist reductionist scientific

2023

01:27:15,669 --> 01:27:11,840

enterprise

2024

01:27:17,350 --> 01:27:15,679

a coherent explanation for any of the

2025

01:27:20,070 --> 01:27:17,360

questions

2026

01:27:20,950 --> 01:27:20,080

that we have entrusted this research

2027

01:27:23,590 --> 01:27:20,960

program

2028

01:27:25,350 --> 01:27:23,600

to give us the answers to i'll give you

2029

01:27:27,830 --> 01:27:25,360

an example

2030

01:27:29,030 --> 01:27:27,840

i would say that at least 90 percent of

2031

01:27:31,669 --> 01:27:29,040

the

2032

01:27:33,910 --> 01:27:31,679

people listening to my voice right now

2033

01:27:35,910 --> 01:27:33,920

were taught in school

2034

01:27:36,950 --> 01:27:35,920

that there was this thing called the big

2035

01:27:39,030 --> 01:27:36,960

bang

2036

01:27:40,709 --> 01:27:39,040

and it happened well when it happened it

2037

01:27:42,870 --> 01:27:40,719

changes every

2038

01:27:44,470 --> 01:27:42,880

every time they send up a new satellite

2039

01:27:46,870 --> 01:27:44,480

the amount of years changes

2040

01:27:47,750 --> 01:27:46,880

but it's the order of magnitude stays

2041

01:27:51,189 --> 01:27:47,760

about the same

2042

01:27:54,310 --> 01:27:51,199

something around 13.6 13.8

2043

01:27:57,669 --> 01:27:54,320

billion years ago

2044

01:28:00,790 --> 01:27:57,679

this thing called the big bang happened

2045

01:28:03,910 --> 01:28:00,800

and every single thing that has

2046

01:28:07,350 --> 01:28:03,920

occurred since then

2047

01:28:10,629 --> 01:28:07,360

in terms of the motions of objects

2048

01:28:15,750 --> 01:28:10,639

in this universe can

2049

01:28:18,790 --> 01:28:15,760

implicitly be scientifically calculated

2050

01:28:20,229 --> 01:28:18,800

based on our present understanding of

2051

01:28:22,470 --> 01:28:20,239

physics

2052

01:28:23,510 --> 01:28:22,480

and anybody who doesn't believe that is

2053

01:28:27,430 --> 01:28:23,520

either a

2054

01:28:30,709 --> 01:28:27,440

crackpot or a pseudoscientist

2055

01:28:31,430 --> 01:28:30,719

or a religious nut that's essentially

2056

01:28:34,550 --> 01:28:31,440

the vel

2057

01:28:36,709 --> 01:28:34,560

glove

2058

01:28:38,390 --> 01:28:36,719

do you think it's changed yeah do you

2059

01:28:40,790 --> 01:28:38,400

think it's changing

2060

01:28:43,510 --> 01:28:40,800

uh it's over it's not only changing

2061

01:28:46,470 --> 01:28:43,520

their own story doesn't hold

2062

01:28:47,110 --> 01:28:46,480

together even approximately anymore let

2063

01:28:50,070 --> 01:28:47,120

me give you

2064

01:28:50,550 --> 01:28:50,080

just a couple of brief examples sure

2065

01:28:52,629 --> 01:28:50,560

okay

2066

01:28:56,070 --> 01:28:52,639

so the big bang happened 13.8 billion

2067

01:28:59,110 --> 01:28:56,080

years ago and we know that because

2068

01:29:00,229 --> 01:28:59,120

tell us yeah well because it has to have

2069

01:29:02,470 --> 01:29:00,239

been circulating

2070

01:29:03,270 --> 01:29:02,480

because that's how long it would take

2071

01:29:07,270 --> 01:29:03,280

for

2072

01:29:10,229 --> 01:29:07,280

the primeval uh singularity

2073

01:29:11,910 --> 01:29:10,239

to reach the point where we would see a

2074

01:29:13,510 --> 01:29:11,920

universe that looks like this one oh

2075

01:29:15,669 --> 01:29:13,520

well that's very impressive

2076

01:29:17,110 --> 01:29:15,679

how do you know that well we have

2077

01:29:20,310 --> 01:29:17,120

einstein's theory

2078

01:29:23,110 --> 01:29:20,320

of gravitation general relativity oh

2079

01:29:25,110 --> 01:29:23,120

well wait a minute you're telling me

2080

01:29:28,950 --> 01:29:25,120

that einstein's theory of gravitation

2081

01:29:32,070 --> 01:29:28,960

predicts the sky that we observe

2082

01:29:33,669 --> 01:29:32,080

well not exactly we're a little bit off

2083

01:29:36,470 --> 01:29:33,679

we need to add a couple of

2084

01:29:38,709 --> 01:29:36,480

things in or really like what well we

2085

01:29:40,629 --> 01:29:38,719

need to add in uh some missing matter

2086

01:29:41,110 --> 01:29:40,639

because we're a little bit off we can't

2087

01:29:43,830 --> 01:29:41,120

quite

2088

01:29:45,590 --> 01:29:43,840

get the gravitational formulas to work

2089

01:29:47,590 --> 01:29:45,600

based on the matter we see in our

2090

01:29:50,470 --> 01:29:47,600

telescopes oh so how much are you up

2091

01:29:51,590 --> 01:29:50,480

a percent two percent well it's a little

2092

01:29:54,629 --> 01:29:51,600

more than that

2093

01:29:58,870 --> 01:29:54,639

well how much more well frankly we're

2094

01:30:02,310 --> 01:29:58,880

off by 95.9

2095

01:30:04,830 --> 01:30:02,320

what are you kidding me you have to add

2096

01:30:10,550 --> 01:30:07,590

95.9

2097

01:30:12,229 --> 01:30:10,560

of the mass and energy of the universe

2098

01:30:16,870 --> 01:30:12,239

of everything

2099

01:30:19,590 --> 01:30:16,880

einstein's equations work

2100

01:30:19,990 --> 01:30:19,600

yes and they're only they're only at

2101

01:30:24,070 --> 01:30:20,000

that

2102

01:30:26,310 --> 01:30:24,080

point now right

2103

01:30:27,189 --> 01:30:26,320

they're at that point now and there's

2104

01:30:28,790 --> 01:30:27,199

one other thing

2105

01:30:31,110 --> 01:30:28,800

we're up against a break i've only got

2106

01:30:33,990 --> 01:30:31,120

30 seconds but

2107

01:30:35,510 --> 01:30:34,000

if we go back to when einstein was here

2108

01:30:37,669 --> 01:30:35,520

right southern california

2109

01:30:39,430 --> 01:30:37,679

mount wilson up there with hollywood oh

2110

01:30:42,470 --> 01:30:39,440

yeah i i've been to that

2111

01:30:45,189 --> 01:30:42,480

i've sat in the chair he sat in and

2112

01:30:47,110 --> 01:30:45,199

and einstein didn't believe it until he

2113

01:30:50,629 --> 01:30:47,120

looked in that telescope and started to

2114

01:30:53,030 --> 01:30:50,639

see what hubble was seeing and measuring

2115

01:30:54,709 --> 01:30:53,040

and and even einstein he thought

2116

01:30:57,110 --> 01:30:54,719

everything was static up to that point

2117

01:30:58,390 --> 01:30:57,120

he was exactly right that's right that's

2118

01:31:01,030 --> 01:30:58,400

exactly right

2119

01:31:02,070 --> 01:31:01,040

and it took it it was it was hubble blew

2120

01:31:06,390 --> 01:31:02,080

the entire

2121

01:31:10,149 --> 01:31:06,400

he blew he he blew his own mind

2122

01:31:11,110 --> 01:31:10,159

hubble was the one who saw all of these

2123

01:31:13,669 --> 01:31:11,120

redshifts

2124

01:31:16,149 --> 01:31:13,679

everywhere he looked in the sky and he

2125

01:31:19,990 --> 01:31:16,159

was smart enough to realize

2126

01:31:24,229 --> 01:31:20,000

okay if if everything that i can

2127

01:31:25,990 --> 01:31:24,239

see in all directions is moving away

2128

01:31:29,510 --> 01:31:26,000

from me

2129

01:31:32,870 --> 01:31:29,520

faster what what does that tell us

2130

01:31:36,070 --> 01:31:32,880

about where i am in relation to

2131

01:31:36,629 --> 01:31:36,080

all that stuff it was an incredible

2132

01:31:38,149 --> 01:31:36,639

thing

2133

01:31:40,070 --> 01:31:38,159

yeah go ahead it tells me that i am

2134

01:31:43,110 --> 01:31:40,080

directly in the freaking

2135

01:31:46,070 --> 01:31:43,120

center of all that stuff

2136

01:31:46,709 --> 01:31:46,080

and this freaked him out so badly in his

2137

01:31:47,910 --> 01:31:46,719

book uh

2138

01:31:49,990 --> 01:31:47,920

of the observational approach to

2139

01:31:52,070 --> 01:31:50,000

cosmology he literally has

2140

01:31:53,229 --> 01:31:52,080

sort of a nervous breakdown trying to

2141

01:31:56,550 --> 01:31:53,239

say this is

2142

01:31:58,870 --> 01:31:56,560

intolerable we have to find some way to

2143

01:32:02,390 --> 01:31:58,880

explain this there has to be

2144

01:32:05,510 --> 01:32:02,400

some other answer because

2145

01:32:06,550 --> 01:32:05,520

the simplest answer to what i see in my

2146

01:32:09,590 --> 01:32:06,560

telescope

2147

01:32:12,229 --> 01:32:09,600

tells us that the ancient idea of earth

2148

01:32:14,709 --> 01:32:12,239

in the center of the universe is exactly

2149

01:32:16,470 --> 01:32:14,719

what my telescope is telling me let's

2150

01:32:17,669 --> 01:32:16,480

take our break right here rick i got to

2151

01:32:19,910 --> 01:32:17,679

jump in

2152

01:32:20,709 --> 01:32:19,920

we're against a hard break this is fade

2153

01:32:23,430 --> 01:32:20,719

to black

2154

01:32:25,669 --> 01:32:23,440

i am your host jimmy church tonight rick

2155

01:32:28,709 --> 01:32:25,679

delano we are talking about his new film

2156

01:32:30,470 --> 01:32:28,719

it is out now the end of quantum

2157

01:32:39,870 --> 01:32:30,480

reality i'm yours jimmy church this is

2158

01:32:50,470 --> 01:32:39,880

fade to black stay with us

2159

01:32:56,709 --> 01:32:53,590

way out here we listen to jimmy church

2160

01:32:58,550 --> 01:32:56,719

you're listening to fade to black

2161

01:33:00,629 --> 01:32:58,560

always on the edge of the hottest

2162

01:33:14,660 --> 01:33:00,639

alternative talk jimmy church

2163

01:33:14,670 --> 01:33:18,550

[Music]

2164

01:33:21,990 --> 01:33:20,629

do you want to be an official fate or

2165

01:33:24,709 --> 01:33:22,000

not of course you

2166

01:33:26,229 --> 01:33:24,719

do this is jimmy church of fade to black

2167

01:33:29,510 --> 01:33:26,239

just go to our membership

2168

01:33:31,350 --> 01:33:29,520

section at jimmychurchradio.com

2169

01:33:33,270 --> 01:33:31,360

old new england soap is committed to

2170

01:33:35,750 --> 01:33:33,280

producing the highest quality organic

2171

01:33:35,990 --> 01:33:35,760

and goat milk soaps available anywhere

2172

01:33:37,590 --> 01:33:36,000

we

2173

01:33:39,350 --> 01:33:37,600

take pride in using the purest

2174

01:33:41,430 --> 01:33:39,360

ingredients and avoiding the typical

2175

01:33:43,030 --> 01:33:41,440

shortcuts used by other soap makers

2176

01:33:45,189 --> 01:33:43,040

because goat milk is what feeds your

2177

01:33:47,590 --> 01:33:45,199

skin we have formulated our soap to use

2178

01:33:50,709 --> 01:33:47,600

the maximum amount of gold milk possible

2179

01:33:52,790 --> 01:33:50,719

38 more than double any other brand

2180

01:33:54,310 --> 01:33:52,800

not because it's easy but because our

2181

01:33:55,830 --> 01:33:54,320

soap is always better

2182

01:33:57,830 --> 01:33:55,840

we are proud to offer you what we

2183

01:34:00,229 --> 01:33:57,840

consider to be truly premium quality

2184

01:34:01,030 --> 01:34:00,239

handmade soaps what's more our soap does

2185

01:34:03,830 --> 01:34:01,040

not contain

2186

01:34:05,030 --> 01:34:03,840

gmo ingredients pesticides sulfates dyes

2187

01:34:07,430 --> 01:34:05,040

artificial colors

2188

01:34:09,510 --> 01:34:07,440

alcohol or petroleum products try our

2189

01:34:11,189 --> 01:34:09,520

new shampoo bar and pooch soap and be

2190

01:34:13,270 --> 01:34:11,199

sure to see all of the great scented

2191

01:34:14,950 --> 01:34:13,280

woodwick soy candles that burn soot free

2192

01:34:17,669 --> 01:34:14,960

for up to 100 hours

2193

01:34:17,990 --> 01:34:17,679

right now save 15 on your order and get

2194

01:34:19,430 --> 01:34:18,000

free

2195

01:34:22,870 --> 01:34:19,440

shipping and orders over forty five

2196

01:34:25,750 --> 01:34:22,880

dollars buy now at oldanniesoap.com

2197

01:34:26,470 --> 01:34:25,760

that's oldannessoap.com not available in

2198

01:34:29,910 --> 01:34:26,480

source

2199

01:34:33,950 --> 01:34:29,920

oldnesoap.com

2200

01:34:36,310 --> 01:34:33,960

so you love talk radio then you'll love

2201

01:34:37,189 --> 01:34:36,320

talkstreamlive.com talk stream live is

2202

01:34:39,990 --> 01:34:37,199

always on

2203

01:34:42,070 --> 01:34:40,000

24 7 with the best streaming talk shows

2204

01:34:42,870 --> 01:34:42,080

find your favorite talkers and discover

2205

01:34:45,910 --> 01:34:42,880

some new ones

2206

01:34:47,990 --> 01:34:45,920

it's free readily available online or on

2207

01:34:50,070 --> 01:34:48,000

mobile with any smartphone or tablet

2208

01:34:52,709 --> 01:34:50,080

finding your favorite talk shows all in

2209

01:34:55,590 --> 01:34:52,719

one place has gotten a whole lot easier

2210

01:34:57,750 --> 01:34:55,600

just go to talkstreamlive.com be sure to

2211

01:35:01,189 --> 01:34:57,760

download the free apps from google play

2212

01:35:04,390 --> 01:35:01,199

or the itunes app store

2213

01:35:06,290 --> 01:35:04,400

you listen to us and we listen to you

2214

01:35:10,669 --> 01:35:06,300

and so does the cia

2215

01:35:15,030 --> 01:35:12,470

kgraradio.com

2216

01:35:17,189 --> 01:35:15,040

telepath is a weekly digital newsletter

2217

01:35:19,590 --> 01:35:17,199

filled with the latest paranormal news

2218

01:35:21,430 --> 01:35:19,600

trending topics and fresh articles from

2219

01:35:23,430 --> 01:35:21,440

some of the most popular critical

2220

01:35:24,950 --> 01:35:23,440

thinkers in the community today

2221

01:35:27,510 --> 01:35:24,960

stay informed on your favorite

2222

01:35:28,390 --> 01:35:27,520

paranormal podcasts and live streaming

2223

01:35:30,310 --> 01:35:28,400

talk shows

2224

01:35:31,750 --> 01:35:30,320

interact with the telepath and upload

2225

01:35:33,750 --> 01:35:31,760

your paranormal story or

2226

01:35:34,870 --> 01:35:33,760

picks it could be featured in an

2227

01:35:37,430 --> 01:35:34,880

upcoming edition

2228

01:35:39,990 --> 01:35:37,440

sign up right now for the free telepath

2229

01:35:41,270 --> 01:35:40,000

newsletter at paranormal dot radio

2230

01:35:44,149 --> 01:35:41,280

that's paranormal

2231

01:35:45,510 --> 01:35:44,159

dot radio including the network you're

2232

01:35:48,390 --> 01:35:45,520

listening to right now

2233

01:35:48,870 --> 01:35:48,400

the paranormal radio app free in google

2234

01:35:53,109 --> 01:35:48,880

play

2235

01:35:59,990 --> 01:35:55,189

you are listening to fade to black with

2236

01:36:03,590 --> 01:36:02,470

hi i'm reece vance you're listening to

2237

01:36:06,709 --> 01:36:03,600

jimmy church

2238

01:36:08,070 --> 01:36:06,719

this is revolution the revolution will

2239

01:36:15,240 --> 01:36:08,080

not be televised

2240

01:36:50,830 --> 01:36:22,830

[Music]

2241

01:36:50,840 --> 01:36:54,790

so

2242

01:36:58,390 --> 01:36:56,709

welcome back fade to black i'm your host

2243

01:36:59,669 --> 01:36:58,400

jimmy church and one of the things i

2244

01:37:03,669 --> 01:36:59,679

have been talking about

2245

01:37:06,070 --> 01:37:03,679

all week on this show and last week

2246

01:37:08,070 --> 01:37:06,080

is about what is going on right now with

2247

01:37:11,350 --> 01:37:08,080

you and your personal data because

2248

01:37:12,470 --> 01:37:11,360

last year website shared over 100

2249

01:37:16,149 --> 01:37:12,480

trillion pieces

2250

01:37:19,270 --> 01:37:16,159

of personal data your personal data

2251

01:37:22,070 --> 01:37:19,280

the data has been taken from you and

2252

01:37:23,350 --> 01:37:22,080

on the website that you are on right now

2253

01:37:25,350 --> 01:37:23,360

that's right

2254

01:37:27,590 --> 01:37:25,360

and i don't like being spied on by

2255

01:37:28,629 --> 01:37:27,600

advertisers which i don't like being

2256

01:37:31,510 --> 01:37:28,639

spied on by

2257

01:37:32,629 --> 01:37:31,520

anybody i run a lot of computers here in

2258

01:37:35,590 --> 01:37:32,639

the bunker

2259

01:37:36,870 --> 01:37:35,600

six computers run this show each night

2260

01:37:40,870 --> 01:37:36,880

to get it out to you

2261

01:37:42,550 --> 01:37:40,880

each one of them runs virtual shield vpn

2262

01:37:45,590 --> 01:37:42,560

if you want to browse the internet

2263

01:37:47,229 --> 01:37:45,600

anonymously and securely like i do

2264

01:37:48,790 --> 01:37:47,239

you need to visit virtual

2265

01:37:52,149 --> 01:37:48,800

virtualshield.com

2266

01:37:53,709 --> 01:37:52,159

forward slash fade to black very simple

2267

01:37:55,030 --> 01:37:53,719

we have banners over at

2268

01:37:57,350 --> 01:37:55,040

jimmychurchradio.com

2269

01:37:58,709 --> 01:37:57,360

and you can also click on the link in

2270

01:38:01,910 --> 01:37:58,719

the video description

2271

01:38:03,030 --> 01:38:01,920

box below and when you do you will get

2272

01:38:06,390 --> 01:38:03,040

virtual shield

2273

01:38:09,590 --> 01:38:06,400

vpn for free today click on the link

2274

01:38:11,270 --> 01:38:09,600

and get virtual shield do it now

2275

01:38:13,350 --> 01:38:11,280

i'm your host jimmy church our guest

2276

01:38:15,350 --> 01:38:13,360

tonight rick delano and we're talking

2277

01:38:15,990 --> 01:38:15,360

about his new film the end of quantum

2278

01:38:19,109 --> 01:38:16,000

reality

2279

01:38:19,990 --> 01:38:19,119

and before the break when uh we're

2280

01:38:22,790 --> 01:38:20,000

discussing

2281

01:38:23,830 --> 01:38:22,800

these amazing uh discoveries that

2282

01:38:27,430 --> 01:38:23,840

happened all the way back

2283

01:38:29,669 --> 01:38:27,440

in 1922 with edwin hubble and convincing

2284

01:38:31,350 --> 01:38:29,679

albert einstein that the universe was

2285

01:38:34,229 --> 01:38:31,360

not only expanding

2286

01:38:36,229 --> 01:38:34,239

and not static but it was speeding up

2287

01:38:37,830 --> 01:38:36,239

and all of this wasn't confirmed as we

2288

01:38:41,350 --> 01:38:37,840

know now today rick

2289

01:38:43,109 --> 01:38:41,360

all the way until 1998 and and today the

2290

01:38:45,669 --> 01:38:43,119

discussion is about

2291

01:38:46,310 --> 01:38:45,679

uh what is actually doing this and you

2292

01:38:48,550 --> 01:38:46,320

know dark

2293

01:38:50,550 --> 01:38:48,560

energy we can't see it we can't measure

2294

01:38:53,669 --> 01:38:50,560

it but this is actually

2295

01:38:55,830 --> 01:38:53,679

what is happening right now and

2296

01:38:57,189 --> 01:38:55,840

and that's where we are today and i'm

2297

01:38:59,510 --> 01:38:57,199

not sure that

2298

01:39:01,109 --> 01:38:59,520

uh the physicists and astrophysicists

2299

01:39:03,669 --> 01:39:01,119

out there in the world can even answer

2300

01:39:06,470 --> 01:39:03,679

these questions

2301

01:39:08,149 --> 01:39:06,480

well it's it's even worse than that

2302

01:39:11,669 --> 01:39:08,159

jimmy

2303

01:39:15,109 --> 01:39:11,679

these ideas dark matter and dark energy

2304

01:39:17,510 --> 01:39:15,119

we are constantly treated to expositions

2305

01:39:19,750 --> 01:39:17,520

about what these things might be

2306

01:39:22,550 --> 01:39:19,760

it's admitted that yes strangely enough

2307

01:39:25,189 --> 01:39:22,560

we haven't found the slightest evidence

2308

01:39:27,910 --> 01:39:25,199

for either of these things which by the

2309

01:39:29,669 --> 01:39:27,920

way make up 95.9

2310

01:39:31,270 --> 01:39:29,679

of the massive energy in the universe in

2311

01:39:33,510 --> 01:39:31,280

other words

2312

01:39:36,790 --> 01:39:33,520

the mainstream science story today

2313

01:39:41,510 --> 01:39:36,800

requires us to believe

2314

01:39:45,270 --> 01:39:41,520

that we are unable to detect

2315

01:39:48,470 --> 01:39:45,280

what constitutes 96 of the universe

2316

01:39:50,950 --> 01:39:48,480

just that we can observe now that's

2317

01:39:53,350 --> 01:39:50,960

pretty disquieting to me

2318

01:39:55,910 --> 01:39:53,360

but okay let's say for the sake of

2319

01:39:59,350 --> 01:39:55,920

argument that that's just the way it is

2320

01:40:02,950 --> 01:39:59,360

we have 95.9 percent

2321

01:40:03,910 --> 01:40:02,960

95.9 of the mass energy budget of the

2322

01:40:06,870 --> 01:40:03,920

universe

2323

01:40:07,270 --> 01:40:06,880

that has so far managed to escape the

2324

01:40:10,390 --> 01:40:07,280

most

2325

01:40:14,390 --> 01:40:10,400

exquisite attempts to detect them

2326

01:40:15,030 --> 01:40:14,400

okay what's the other possibility that

2327

01:40:18,310 --> 01:40:15,040

no one

2328

01:40:19,350 --> 01:40:18,320

ever talks about the other possibility

2329

01:40:22,950 --> 01:40:19,360

jimmy

2330

01:40:26,070 --> 01:40:22,960

is that dark energy and dark matter

2331

01:40:29,590 --> 01:40:26,080

are simply terms

2332

01:40:35,430 --> 01:40:29,600

added into the einstein equations

2333

01:40:39,109 --> 01:40:35,440

to bridge the otherwise insuperable gap

2334

01:40:41,910 --> 01:40:39,119

between theory and observation

2335

01:40:43,030 --> 01:40:41,920

in other words the other possibility is

2336

01:40:45,910 --> 01:40:43,040

that our theories

2337

01:40:47,350 --> 01:40:45,920

are wrong that's right and we are and we

2338

01:40:52,390 --> 01:40:47,360

are patching them

2339

01:40:56,070 --> 01:40:52,400

up with these hand-waving appeals

2340

01:40:59,350 --> 01:40:56,080

to dark matter and dark energy because

2341

01:41:02,790 --> 01:40:59,360

we know they have to be there

2342

01:41:06,229 --> 01:41:02,800

otherwise our theories

2343

01:41:09,430 --> 01:41:06,239

are drastically falsified

2344

01:41:10,550 --> 01:41:09,440

by direct observation now this second

2345

01:41:14,550 --> 01:41:10,560

possibility

2346

01:41:16,830 --> 01:41:14,560

is essentially never talked about

2347

01:41:18,390 --> 01:41:16,840

as a matter of fact you even raise this

2348

01:41:22,470 --> 01:41:18,400

possibility

2349

01:41:26,790 --> 01:41:22,480

is to earn yourself a stern

2350

01:41:28,870 --> 01:41:26,800

rebuttal as you know either a crackpot or

2351

01:41:29,910 --> 01:41:28,880

a pseudo-scientist or a religious

2352

01:41:33,510 --> 01:41:29,920

fundamentalist

2353

01:41:37,669 --> 01:41:33,520

to even raise these questions now

2354

01:41:39,590 --> 01:41:37,679

is in very many of the other circles

2355

01:41:41,350 --> 01:41:39,600

it's just not done in polite society

2356

01:41:44,709 --> 01:41:41,360

well i reject that

2357

01:41:47,430 --> 01:41:44,719

um after many years of looking at this

2358

01:41:48,390 --> 01:41:47,440

both in the principle and then even more

2359

01:41:51,510 --> 01:41:48,400

so

2360

01:41:52,950 --> 01:41:51,520

with wolfgang smith in the new film i

2361

01:41:57,109 --> 01:41:52,960

consider it to be

2362

01:42:00,390 --> 01:41:57,119

much more than merely possible

2363

01:42:03,910 --> 01:42:00,400

that what we are really seeing

2364

01:42:07,030 --> 01:42:03,920

in the cutting edge

2365

01:42:08,950 --> 01:42:07,040

developments of both cosmology and the

2366

01:42:12,470 --> 01:42:08,960

particle physics

2367

01:42:15,510 --> 01:42:12,480

is a clear sign that we have reached

2368

01:42:17,669 --> 01:42:15,520

a dead end that the

2369

01:42:18,629 --> 01:42:17,679

enlightenment scientific research

2370

01:42:23,189 --> 01:42:18,639

program

2371

01:42:26,070 --> 01:42:23,199

has reached its reductio ad absurdum

2372

01:42:27,430 --> 01:42:26,080

that in order to maintain their theories

2373

01:42:30,629 --> 01:42:27,440

now

2374

01:42:32,830 --> 01:42:30,639

we must postulate wave our hands and

2375

01:42:35,350 --> 01:42:32,840

bring into existence

2376
01:42:36,470 --> 01:42:35,360
95.9 percent of the mass energy budget

2377
01:42:39,669 --> 01:42:36,480
of the universe

2378
01:42:43,030 --> 01:42:39,679
we must postulate a world that

2379
01:42:45,270 --> 01:42:43,040
splits off into as many copies of itself

2380
01:42:46,709 --> 01:42:45,280
as there were possible values to a

2381
01:42:49,830 --> 01:42:46,719
quantum measurement

2382
01:42:52,470 --> 01:42:49,840
trillions upon octillions upon

2383
01:42:55,510 --> 01:42:52,480
googleplex millions of worlds every

2384
01:42:58,149 --> 01:42:55,520
time we blink our eyes

2385
01:42:59,590 --> 01:42:58,159
i hope you will forgive me if i am less

2386
01:43:02,629 --> 01:42:59,600
than persuaded

2387
01:43:05,510 --> 01:43:02,639
by these appeals how is it

2388
01:43:07,590 --> 01:43:05,520

yes and and and this is the point that i

2389

01:43:08,229 --> 01:43:07,600

keep trying to drive home not only with

2390

01:43:10,550 --> 01:43:08,239

myself

2391

01:43:11,590 --> 01:43:10,560

but with our our audience who is very

2392

01:43:15,030 --> 01:43:11,600

smart

2393

01:43:18,870 --> 01:43:15,040

is that the very smugness

2394

01:43:22,629 --> 01:43:18,880

that we get when these types of

2395

01:43:25,990 --> 01:43:22,639

questions are raised i find offensive

2396

01:43:29,510 --> 01:43:26,000

but yet indicative of a great

2397

01:43:31,750 --> 01:43:29,520

deal of circle the wagons from telling

2398

01:43:34,550 --> 01:43:31,760

you i've seen it before

2399

01:43:36,870 --> 01:43:34,560

when you look at the galileo trial when

2400

01:43:40,390 --> 01:43:36,880

you look at the brutal trial

2401
01:43:42,070 --> 01:43:40,400
and you look at the general attitude

2402
01:43:43,590 --> 01:43:42,080
that was taken in the face of these

2403
01:43:46,709 --> 01:43:43,600
things

2404
01:43:50,149 --> 01:43:46,719
you you sense that at a certain point

2405
01:43:51,510 --> 01:43:50,159
power naturally begins to circle the

2406
01:43:55,109 --> 01:43:51,520
wagons

2407
01:43:58,950 --> 01:43:55,119
and rather than maintain a commitment to

2408
01:43:59,590 --> 01:43:58,960
truth and search for it they maintain a

2409
01:44:02,629 --> 01:43:59,600
commitment

2410
01:44:06,229 --> 01:44:02,639
to the protection and perpetuation

2411
01:44:07,030 --> 01:44:06,239
of a status quo that keeps the rice

2412
01:44:10,390 --> 01:44:07,040
bowls

2413
01:44:12,870 --> 01:44:10,400

filled and i'm sorry to say uh

2414

01:44:13,430 --> 01:44:12,880

i'm not all that surprised but i think

2415

01:44:16,870 --> 01:44:13,440

we are

2416

01:44:20,470 --> 01:44:16,880

well into the circle the wagons phase

2417

01:44:23,990 --> 01:44:20,480

in terms of the world story that has

2418

01:44:27,590 --> 01:44:24,000

uh sort of become the de facto

2419

01:44:28,870 --> 01:44:27,600

uh belief of of of the vast majority of

2420

01:44:30,870 --> 01:44:28,880

humanity

2421

01:44:31,910 --> 01:44:30,880

their theories are failing their

2422

01:44:34,709 --> 01:44:31,920

theories are

2423

01:44:36,390 --> 01:44:34,719

regularly now being patched up

2424

01:44:37,910 --> 01:44:36,400

frantically

2425

01:44:40,629 --> 01:44:37,920

almost every time there's a new

2426

01:44:44,070 --> 01:44:40,639

observation now there's a new theory

2427

01:44:47,270 --> 01:44:44,080

um you mentioned in 1998 when the uh

2428

01:44:50,790 --> 01:44:47,280

the nobel prize was given uh

2429

01:44:53,430 --> 01:44:50,800

to um martin reese uh

2430

01:44:54,709 --> 01:44:53,440

uh at cambridge and his associates for

2431

01:44:58,430 --> 01:44:54,719

discovering

2432

01:45:02,310 --> 01:44:58,440

what was at the time termed the

2433

01:45:05,189 --> 01:45:02,320

accelerating expansion of the universe

2434

01:45:05,990 --> 01:45:05,199

well this is running into just

2435

01:45:09,510 --> 01:45:06,000

absolutely

2436

01:45:11,109 --> 01:45:09,520

drastic problems now what you're talking

2437

01:45:12,390 --> 01:45:11,119

about when you talk about the expansion

2438

01:45:12,950 --> 01:45:12,400

of the universe is something called the

2439

01:45:17,189 --> 01:45:12,960

hubble

2440

01:45:20,870 --> 01:45:17,199

constant and this is a number

2441

01:45:24,629 --> 01:45:20,880

that allows us to calculate

2442

01:45:28,149 --> 01:45:24,639

the rate of expansion of the universe

2443

01:45:31,669 --> 01:45:28,159

and what reason his fellow uh thinkers

2444

01:45:33,270 --> 01:45:31,679

did was they measured the what they call

2445

01:45:36,070 --> 01:45:33,280

the standard candles

2446

01:45:37,430 --> 01:45:36,080

the type 1 supernova the type 1a

2447

01:45:39,189 --> 01:45:37,440

supernova

2448

01:45:40,870 --> 01:45:39,199

and they determined from these

2449

01:45:43,750 --> 01:45:40,880

observations

2450

01:45:45,430 --> 01:45:43,760

that not only was the universe expanding

2451
01:45:47,030 --> 01:45:45,440
which had been accepted back when hubble

2452
01:45:50,470 --> 01:45:47,040
and einstein sat down

2453
01:45:53,669 --> 01:45:50,480
up on top of mount wilson but

2454
01:45:55,830 --> 01:45:53,679
completely shockingly it's

2455
01:45:57,109 --> 01:45:55,840
it's accelerating in its expansion

2456
01:46:01,109 --> 01:45:57,119
that's a real problem

2457
01:46:04,310 --> 01:46:01,119
you see gravity should be slowing down

2458
01:46:05,430 --> 01:46:04,320
that expansion there is no force that we

2459
01:46:09,510 --> 01:46:05,440
can even

2460
01:46:11,510 --> 01:46:09,520
suspect that would cause it to speed up

2461
01:46:13,590 --> 01:46:11,520
this would be by far the most powerful

2462
01:46:14,390 --> 01:46:13,600
force in the universe and we have never

2463
01:46:19,030 --> 01:46:14,400

been able

2464

01:46:21,270 --> 01:46:19,040

to detect it at all we can only infer it

2465

01:46:22,950 --> 01:46:21,280

from the fact that these observations of

2466

01:46:25,990 --> 01:46:22,960

the standard candles

2467

01:46:28,390 --> 01:46:26,000

seemed to imply an accelerating

2468

01:46:29,750 --> 01:46:28,400

expansion well ever since that

2469

01:46:31,830 --> 01:46:29,760

observation was made

2470

01:46:33,109 --> 01:46:31,840

more and more problems were started prop

2471

01:46:36,229 --> 01:46:33,119

up there are

2472

01:46:38,149 --> 01:46:36,239

two different schools that measure this

2473

01:46:39,189 --> 01:46:38,159

hubble constant based on two different

2474

01:46:41,830 --> 01:46:39,199

methods

2475

01:46:42,950 --> 01:46:41,840

their answers are drastically at odds

2476

01:46:45,910 --> 01:46:42,960

with one another

2477

01:46:47,910 --> 01:46:45,920

they are both absolutely rigorous

2478

01:46:49,030 --> 01:46:47,920

perfectly scientifically valid in their

2479

01:46:52,070 --> 01:46:49,040

approaches

2480

01:46:53,669 --> 01:46:52,080

and they yield absolutely contradictory

2481

01:46:57,109 --> 01:46:53,679

values for the hubble constant

2482

01:46:59,109 --> 01:46:57,119

this is such a big deal that if you get

2483

01:46:59,430 --> 01:46:59,119

these guys to loosen their ties a little

2484

01:47:03,109 --> 01:46:59,440

bit

2485

01:47:06,390 --> 01:47:03,119

they will tell you we really do not have

2486

01:47:10,310 --> 01:47:06,400

a standard model of cosmology anymore

2487

01:47:12,550 --> 01:47:10,320

the data simply do not fit

2488

01:47:14,149 --> 01:47:12,560

the story that we have told now this is

2489

01:47:16,629 --> 01:47:14,159

a big problem

2490

01:47:19,270 --> 01:47:16,639

because when you have science elevated

2491

01:47:20,629 --> 01:47:19,280

to the level of authority and prestige

2492

01:47:23,750 --> 01:47:20,639

which it has

2493

01:47:27,350 --> 01:47:23,760

arguably very validly obtained

2494

01:47:29,270 --> 01:47:27,360

it doesn't do at all to let

2495

01:47:31,669 --> 01:47:29,280

the average person out there in the

2496

01:47:32,870 --> 01:47:31,679

street start to suspect that the whole

2497

01:47:36,070 --> 01:47:32,880

darned edifice

2498

01:47:39,109 --> 01:47:36,080

has begun to collapse nevertheless jimmy

2499

01:47:43,030 --> 01:47:39,119

i can tell you the whole darned edifice

2500

01:47:45,590 --> 01:47:43,040

has begun to collapse this is requiring

2501
01:47:49,750 --> 01:47:45,600
of us at this point

2502
01:47:53,910 --> 01:47:49,760
a tremendous growth

2503
01:47:58,070 --> 01:47:53,920
in our ability to separate out

2504
01:48:00,390 --> 01:47:58,080
what is actually scientifically provable

2505
01:48:02,390 --> 01:48:00,400
from that which is simply wrapped up in

2506
01:48:04,709 --> 01:48:02,400
the label of science

2507
01:48:05,830 --> 01:48:04,719
and put on the store shelves next to

2508
01:48:07,830 --> 01:48:05,840
science

2509
01:48:10,310 --> 01:48:07,840
but which is nothing other than

2510
01:48:13,189 --> 01:48:10,320
metaphysical speculation

2511
01:48:14,629 --> 01:48:13,199
and i can tell you for sure the vast

2512
01:48:18,390 --> 01:48:14,639
majority of the world

2513
01:48:22,470 --> 01:48:18,400

story we tell ourselves is not science

2514

01:48:25,350 --> 01:48:22,480

it is metaphysical speculation based

2515

01:48:25,910 --> 01:48:25,360

upon the assumption that our fundamental

2516

01:48:29,350 --> 01:48:25,920

theories

2517

01:48:31,430 --> 01:48:29,360

are correct even though our observations

2518

01:48:33,189 --> 01:48:31,440

are continually throwing that into the

2519

01:48:36,149 --> 01:48:33,199

gravest doubt

2520

01:48:38,070 --> 01:48:36,159

and and i think the the point that

2521

01:48:40,149 --> 01:48:38,080

everybody should understand

2522

01:48:41,590 --> 01:48:40,159

and we've gotten away from it rick and i

2523

01:48:44,870 --> 01:48:41,600

don't know why

2524

01:48:47,669 --> 01:48:44,880

but you you bring it up that science

2525

01:48:48,470 --> 01:48:47,679

is nothing more than a series of

2526

01:48:51,590 --> 01:48:48,480

corrections

2527

01:48:54,950 --> 01:48:51,600

that's all it is right right copernicus

2528

01:48:57,830 --> 01:48:54,960

galileo bruno einstein

2529

01:48:58,629 --> 01:48:57,840

einstein's been corrected many times

2530

01:49:00,390 --> 01:48:58,639

newton

2531

01:49:03,830 --> 01:49:00,400

you know this is the most important

2532

01:49:06,790 --> 01:49:03,840

point jimmy i'm so glad you said this

2533

01:49:07,590 --> 01:49:06,800

there is something very special

2534

01:49:10,950 --> 01:49:07,600

beautiful

2535

01:49:14,149 --> 01:49:10,960

and powerful about the scientific method

2536

01:49:16,870 --> 01:49:14,159

that is absolutely unique to

2537

01:49:17,350 --> 01:49:16,880

the scientific method it's why science

2538

01:49:20,470 --> 01:49:17,360

has had

2539

01:49:22,310 --> 01:49:20,480

such a magnificent run over the last

2540

01:49:25,189 --> 01:49:22,320

three centuries

2541

01:49:26,550 --> 01:49:25,199

science is self-correcting at least it's

2542

01:49:29,750 --> 01:49:26,560

supposed to be

2543

01:49:33,430 --> 01:49:29,760

how is it self-correcting in exactly

2544

01:49:35,109 --> 01:49:33,440

this way jimmy if you publish a paper

2545

01:49:38,310 --> 01:49:35,119

tomorrow

2546

01:49:42,229 --> 01:49:38,320

that makes a profound

2547

01:49:44,470 --> 01:49:42,239

new hypothesis about how we can resolve

2548

01:49:45,430 --> 01:49:44,480

the the contradictions in the hubble

2549

01:49:48,629 --> 01:49:45,440

constant right

2550

01:49:52,229 --> 01:49:48,639

okay if

2551

01:49:55,430 --> 01:49:52,239

your theory doesn't stand up

2552

01:49:57,750 --> 01:49:55,440

to experimental caste

2553

01:49:58,629 --> 01:49:57,760

it doesn't matter how beautiful the math

2554

01:50:00,950 --> 01:49:58,639

is

2555

01:50:02,390 --> 01:50:00,960

it doesn't matter how many phds have

2556

01:50:04,310 --> 01:50:02,400

praised it

2557

01:50:05,589 --> 01:50:04,320

doesn't matter how many votes it gets in

2558

01:50:07,270 --> 01:50:05,599

an internet poll

2559

01:50:09,189 --> 01:50:07,280

it doesn't matter how many copies it

2560

01:50:10,070 --> 01:50:09,199

sold on the new york times bestseller

2561

01:50:13,189 --> 01:50:10,080

list

2562

01:50:16,390 --> 01:50:13,199

none of that matters

2563

01:50:18,669 --> 01:50:16,400

at all what matters

2564

01:50:19,990 --> 01:50:18,679

is what happened when you tested it

2565

01:50:23,030 --> 01:50:20,000

experimentally

2566

01:50:24,550 --> 01:50:23,040

that's the only vote that counts or that

2567

01:50:28,070 --> 01:50:24,560

is supposed to count

2568

01:50:29,109 --> 01:50:28,080

in science as long as science allowed

2569

01:50:33,270 --> 01:50:29,119

itself to be

2570

01:50:35,669 --> 01:50:33,280

guided by that beautiful and terrible

2571

01:50:38,070 --> 01:50:35,679

principle imagine all the beautiful

2572

01:50:38,870 --> 01:50:38,080

ideas that died along the way that's

2573

01:50:43,750 --> 01:50:38,880

right

2574

01:50:47,030 --> 01:50:43,760

hear it over and over again

2575

01:50:48,310 --> 01:50:47,040

when uh

2576

01:50:50,830 --> 01:50:48,320

how many times have we heard about

2577

01:50:55,990 --> 01:50:50,840

multi-world's parallel worlds the

2578

01:51:01,030 --> 01:50:58,070

well you know measurement is the issue

2579

01:51:03,910 --> 01:51:01,040

uh well uh okay wait a minute here

2580

01:51:04,950 --> 01:51:03,920

you want me you're exactly right this is

2581

01:51:11,510 --> 01:51:04,960

so profound

2582

01:51:14,310 --> 01:51:11,520

science departs now i want to believe

2583

01:51:15,109 --> 01:51:14,320

justification but i want to believe i

2584

01:51:18,229 --> 01:51:15,119

want to believe

2585

01:51:18,870 --> 01:51:18,239

i have faith these guys have a very good

2586

01:51:20,870 --> 01:51:18,880

argument

2587

01:51:22,390 --> 01:51:20,880

how can you test this you can't you have

2588

01:51:25,109 --> 01:51:22,400

to trust the mathematics

2589

01:51:27,350 --> 01:51:25,119

right right the mathematics is giving us

2590

01:51:28,470 --> 01:51:27,360

the answer and even if we can't test it

2591

01:51:31,189 --> 01:51:28,480

experimentally

2592

01:51:33,430 --> 01:51:31,199

the math has been so good for so long

2593

01:51:34,149 --> 01:51:33,440

and look at how beautiful this equation

2594

01:51:37,350 --> 01:51:34,159

is

2595

01:51:39,990 --> 01:51:37,360

it's too good not to be true

2596

01:51:41,189 --> 01:51:40,000

and i'm telling you this is the end of

2597

01:51:43,510 --> 01:51:41,199

the line

2598

01:51:44,229 --> 01:51:43,520

for the authentic scientific method i

2599

01:51:47,270 --> 01:51:44,239

don't care

2600

01:51:50,550 --> 01:51:47,280

how good your justification is if you

2601

01:51:53,750 --> 01:51:50,560

propose as a solution to an

2602

01:51:57,510 --> 01:51:53,760

observed problem something which

2603

01:51:59,430 --> 01:51:57,520

cannot even in principle be subjected to

2604

01:52:02,470 --> 01:51:59,440

a crucial experimental test

2605

01:52:05,510 --> 01:52:02,480

you are no longer doing

2606

01:52:08,149 --> 01:52:05,520

science stop calling it science call it

2607

01:52:10,310 --> 01:52:08,159

scientifically based metaphysics

2608

01:52:12,550 --> 01:52:10,320

but stop wrapping it up in the label

2609

01:52:15,589 --> 01:52:12,560

science and putting it up on the shelf

2610

01:52:16,470 --> 01:52:15,599

next to newton's gravitational laws they

2611

01:52:19,830 --> 01:52:16,480

are not

2612

01:52:23,430 --> 01:52:19,840

the same thing and this is

2613

01:52:28,709 --> 01:52:23,440

the big issue here

2614

01:52:32,709 --> 01:52:28,719

science authentic science real science

2615

01:52:34,629 --> 01:52:32,719

has gone far beyond

2616

01:52:36,310 --> 01:52:34,639

experimental crucial tests for a long

2617

01:52:38,790 --> 01:52:36,320

time now

2618

01:52:40,390 --> 01:52:38,800

you hear about uh string theory for

2619

01:52:41,750 --> 01:52:40,400

example i was going to bring that up

2620

01:52:43,830 --> 01:52:41,760

yeah okay well done

2621

01:52:46,149 --> 01:52:43,840

well done i'm not a mathematician

2622

01:52:48,310 --> 01:52:46,159

wolfgang is a doctor of mathematics

2623

01:52:49,430 --> 01:52:48,320

and i don't understand the first bloody

2624

01:52:51,750 --> 01:52:49,440

thing

2625

01:52:53,830 --> 01:52:51,760

about these equations of string theory i

2626

01:52:56,629 --> 01:52:53,840

am told by people who do

2627

01:52:59,870 --> 01:52:56,639

that they are almost astonishing in

2628

01:53:03,109 --> 01:52:59,880

their beauty that these equations are so

2629

01:53:06,629 --> 01:53:03,119

profoundly beautiful elegant and

2630

01:53:08,950 --> 01:53:06,639

employ the same types of insights that

2631

01:53:10,310 --> 01:53:08,960

have given us so many breakthroughs in

2632

01:53:14,310 --> 01:53:10,320

the past

2633

01:53:17,510 --> 01:53:14,320

that ultimately the argument is

2634

01:53:18,870 --> 01:53:17,520

this is too good not to be true it has

2635

01:53:21,990 --> 01:53:18,880

to be true

2636

01:53:25,189 --> 01:53:22,000

because there's no other way

2637

01:53:27,910 --> 01:53:25,199

there's no competing approach

2638

01:53:28,870 --> 01:53:27,920

that could yield such elegance such

2639

01:53:32,390 --> 01:53:28,880

symmetry

2640

01:53:35,270 --> 01:53:32,400

such power in our mathematics

2641

01:53:36,629 --> 01:53:35,280

and you know what wolfgang told me a

2642

01:53:40,470 --> 01:53:36,639

long time ago he said

2643

01:53:42,070 --> 01:53:40,480

that is death the minute that you say

2644

01:53:45,669 --> 01:53:42,080

that your equation is

2645

01:53:49,350 --> 01:53:45,679

so good that it doesn't have to pass

2646

01:53:51,669 --> 01:53:49,360

experimental test you have departed from

2647

01:53:55,669 --> 01:53:51,679

the authentic scientific method

2648

01:53:58,709 --> 01:53:55,679

you are now engaged in constructing

2649

01:54:01,669 --> 01:53:58,719

a metaphysical story

2650

01:54:03,990 --> 01:54:01,679

you are not engaged in constructing a

2651
01:54:05,990 --> 01:54:04,000
testable scientific theory

2652
01:54:07,669 --> 01:54:06,000
and of course with the multiverse that's

2653
01:54:09,830 --> 01:54:07,679
exactly what we have

2654
01:54:11,990 --> 01:54:09,840
why do they believe in the multiverse

2655
01:54:14,709 --> 01:54:12,000
because it's the only way

2656
01:54:17,030 --> 01:54:14,719
that they can even approximately account

2657
01:54:18,070 --> 01:54:17,040
for the one universe we do observe

2658
01:54:19,669 --> 01:54:18,080
that's right there have to be an

2659
01:54:21,589 --> 01:54:19,679
infinity of other ones because this

2660
01:54:24,629 --> 01:54:21,599
one's too unlikely

2661
01:54:28,229 --> 01:54:24,639
this one is just too finely tuned

2662
01:54:30,709 --> 01:54:28,239
this one is just too precise and perfect

2663
01:54:32,470 --> 01:54:30,719

to have been anything other than the one

2664

01:54:35,669 --> 01:54:32,480

lucky lottery ticket in a

2665

01:54:38,149 --> 01:54:35,679

whole quintillion of other

2666

01:54:40,709 --> 01:54:38,159

unlucky lottery tickets well what

2667

01:54:44,070 --> 01:54:40,719

evidence do we have of that

2668

01:54:46,790 --> 01:54:44,080

none right what so ever

2669

01:54:47,830 --> 01:54:46,800

well what evidence could there ever be

2670

01:54:50,950 --> 01:54:47,840

of that

2671

01:54:52,149 --> 01:54:50,960

none whatsoever how can you experiment

2672

01:54:54,550 --> 01:54:52,159

upon the universe

2673

01:54:57,589 --> 01:54:54,560

that is causally disconnected from this

2674

01:55:01,270 --> 01:54:57,599

one what observation can you possibly

2675

01:55:03,990 --> 01:55:01,280

do you can't do one even in principle

2676
01:55:05,109 --> 01:55:04,000
so we are now engaged at the moment of

2677
01:55:07,510 --> 01:55:05,119
truth

2678
01:55:09,910 --> 01:55:07,520
where either we sail through the looking

2679
01:55:12,550 --> 01:55:09,920
diaz into the never never land of the

2680
01:55:16,070 --> 01:55:12,560
multiverse and many worlds

2681
01:55:20,950 --> 01:55:16,080
or we stop and we say

2682
01:55:24,870 --> 01:55:23,350
then there has to be a mistake somewhere

2683
01:55:28,070 --> 01:55:24,880
back along the line

2684
01:55:28,470 --> 01:55:28,080
we have to have made a mistake because

2685
01:55:30,870 --> 01:55:28,480
by

2686
01:55:32,629 --> 01:55:30,880
following the theories that we thought

2687
01:55:35,669 --> 01:55:32,639
were true

2688
01:55:39,270 --> 01:55:35,679

we have arrived at a reductio

2689

01:55:42,229 --> 01:55:39,280

ad absurdum that can never be tested

2690

01:55:43,430 --> 01:55:42,239

we literally are reduced in a very real

2691

01:55:45,830 --> 01:55:43,440

sense

2692

01:55:46,709 --> 01:55:45,840

to arguing for the next few hundred

2693

01:55:49,030 --> 01:55:46,719

years

2694

01:55:49,750 --> 01:55:49,040

how many angels can dance on the head of

2695

01:55:51,350 --> 01:55:49,760

the pin

2696

01:55:53,589 --> 01:55:51,360

except this time it's how many

2697

01:55:54,470 --> 01:55:53,599

multiverses does our math tell us there

2698

01:55:56,470 --> 01:55:54,480

must be

2699

01:55:57,669 --> 01:55:56,480

even though we can never observe or test

2700

01:56:00,470 --> 01:55:57,679

any single one of them

2701
01:56:01,589 --> 01:56:00,480
it's a profound moment in history there

2702
01:56:03,189 --> 01:56:01,599
is um

2703
01:56:05,910 --> 01:56:03,199
we've got about five minutes i want to

2704
01:56:08,149 --> 01:56:05,920
stay on string theory for just a second

2705
01:56:10,070 --> 01:56:08,159
because i keep going back to faith right

2706
01:56:12,950 --> 01:56:10,080
i'm not talking about religion

2707
01:56:13,510 --> 01:56:12,960
but physicists are asking us to have

2708
01:56:15,510 --> 01:56:13,520
faith

2709
01:56:17,030 --> 01:56:15,520
in what they are saying and when it

2710
01:56:19,830 --> 01:56:17,040
comes to it's their best argument

2711
01:56:21,350 --> 01:56:19,840
yeah that's right and so with with with

2712
01:56:24,149 --> 01:56:21,360
brian greene

2713
01:56:26,149 --> 01:56:24,159

leading the charge on string theory this

2714

01:56:26,870 --> 01:56:26,159

is where the faith for me pushes a bit

2715

01:56:29,990 --> 01:56:26,880

too far

2716

01:56:32,470 --> 01:56:30,000

in that uh the closer you go down

2717

01:56:33,910 --> 01:56:32,480

and and this the vibrating strings are

2718

01:56:35,669 --> 01:56:33,920

the basis of everything and

2719

01:56:37,589 --> 01:56:35,679

inside of that once we go a little bit

2720

01:56:41,430 --> 01:56:37,599

further we have found

2721

01:56:43,109 --> 01:56:41,440

11 uh parallel uh dimensions

2722

01:56:45,109 --> 01:56:43,119

that are there now we we know about

2723

01:56:45,750 --> 01:56:45,119

space and time we know up and down and

2724

01:56:48,629 --> 01:56:45,760

depth and

2725

01:56:51,030 --> 01:56:48,639

you know three and then four space time

2726

01:56:53,990 --> 01:56:51,040

okay but we need to extend that

2727

01:56:55,109 --> 01:56:54,000

and and i have to stop and go well wait

2728

01:56:57,270 --> 01:56:55,119

a minute

2729

01:56:59,030 --> 01:56:57,280

how how big are these dimensions and

2730

01:57:00,950 --> 01:56:59,040

what exists there

2731

01:57:02,310 --> 01:57:00,960

and and well you know you have to

2732

01:57:05,510 --> 01:57:02,320

understand that they're very

2733

01:57:08,550 --> 01:57:05,520

narrow but the math says that they

2734

01:57:09,270 --> 01:57:08,560

are there the math says that that's the

2735

01:57:11,990 --> 01:57:09,280

key right there

2736

01:57:14,070 --> 01:57:12,000

that's it i appreciate i i appreciate

2737

01:57:15,430 --> 01:57:14,080

you know when i when i listen to brian

2738

01:57:18,470 --> 01:57:15,440

and to uh

2739

01:57:22,229 --> 01:57:18,480

to others there's almost a poignant

2740

01:57:24,709 --> 01:57:22,239

tone it has to be right

2741

01:57:25,750 --> 01:57:24,719

because otherwise the whole emphasis is

2742

01:57:27,750 --> 01:57:25,760

going to collapse

2743

01:57:29,830 --> 01:57:27,760

and you're right about that you know

2744

01:57:30,950 --> 01:57:29,840

absolutely right and i'm not slamming on

2745

01:57:32,950 --> 01:57:30,960

brian

2746

01:57:34,870 --> 01:57:32,960

i'm not the problem is this jimmy here's

2747

01:57:38,550 --> 01:57:34,880

the problem

2748

01:57:42,550 --> 01:57:38,560

if your math requires me

2749

01:57:45,589 --> 01:57:42,560

to believe that something exists

2750

01:57:46,870 --> 01:57:45,599

despite the fact that there is not the

2751

01:57:51,030 --> 01:57:46,880

slightest

2752

01:57:53,270 --> 01:57:51,040

actual evidence no for it

2753

01:57:56,550 --> 01:57:53,280

apart from the fact that your math

2754

01:58:00,550 --> 01:57:56,560

requires it to be there

2755

01:58:04,830 --> 01:58:00,560

you are no longer proposing science

2756

01:58:06,070 --> 01:58:04,840

to me you are proposing a metaphysical

2757

01:58:09,350 --> 01:58:06,080

mathematical

2758

01:58:09,669 --> 01:58:09,360

story all of these extra dimensions are

2759

01:58:12,550 --> 01:58:09,679

just

2760

01:58:16,070 --> 01:58:12,560

exactly like dark matter and dark energy

2761

01:58:19,350 --> 01:58:16,080

we talk about them as if they exist

2762

01:58:24,229 --> 01:58:19,360

they do not exist anywhere so far

2763

01:58:27,669 --> 01:58:26,310

that's right to make the math come out

2764

01:58:29,589 --> 01:58:27,679

right that's right

2765

01:58:30,790 --> 01:58:29,599

what if the theory is wrong and we're

2766

01:58:33,990 --> 01:58:30,800

just adding in

2767

01:58:38,149 --> 01:58:34,000

all of these dimensions and matter and

2768

01:58:40,870 --> 01:58:38,159

energy to save the appearances

2769

01:58:42,790 --> 01:58:40,880

of the theory you can do that forever

2770

01:58:43,669 --> 01:58:42,800

you can always have more angels dance on

2771

01:58:47,270 --> 01:58:43,679

the head of a pin

2772

01:58:50,550 --> 01:58:47,280

there's no limit the problem is

2773

01:58:53,629 --> 01:58:50,560

you are now departing the

2774

01:58:55,109 --> 01:58:53,639

key of true science which is

2775

01:58:59,109 --> 01:58:55,119

experimental

2776

01:59:03,270 --> 01:58:59,119

test and possible falsification

2777

01:59:06,870 --> 01:59:03,280

of your theory itself

2778

01:59:08,790 --> 01:59:06,880

yeah when we uh i can i can deal with

2779

01:59:11,750 --> 01:59:08,800

photons i can deal with protons

2780

01:59:13,669 --> 01:59:11,760

right i can deal with quarks i can deal

2781

01:59:16,149 --> 01:59:13,679

with strong and weak gravity

2782

01:59:18,070 --> 01:59:16,159

i can deal with all of these things but

2783

01:59:20,629 --> 01:59:18,080

when we get into

2784

01:59:21,510 --> 01:59:20,639

vibrating strings and an extra seven

2785

01:59:24,709 --> 01:59:21,520

dimensions

2786

01:59:28,229 --> 01:59:24,719

that we can't see or measure they are

2787

01:59:31,270 --> 01:59:28,239

only in the math to make the math work

2788

01:59:34,310 --> 01:59:31,280

that's where it's a leap of faith

2789

01:59:38,229 --> 01:59:34,320

it is indeed a leap of faith and

2790

01:59:42,870 --> 01:59:38,239

i would go even further i would argue

2791

01:59:46,870 --> 01:59:42,880

that the leap of faith required

2792

01:59:50,390 --> 01:59:46,880

is all together too much

2793

01:59:52,390 --> 01:59:50,400

that despite all of the triumphs

2794

01:59:53,510 --> 01:59:52,400

of the enlightenment scientific

2795

01:59:56,950 --> 01:59:53,520

enterprise and they are

2796

02:00:00,149 --> 01:59:56,960

magnificent believe me they are

2797

02:00:04,310 --> 02:00:00,159

none of those triumphs compels

2798

02:00:06,390 --> 02:00:04,320

us to accept the slightest bit

2799

02:00:07,350 --> 02:00:06,400

of what we are being told about many

2800

02:00:10,629 --> 02:00:07,360

worlds

2801
02:00:11,669 --> 02:00:10,639
and multiverses and dark matter and dark

2802
02:00:15,030 --> 02:00:11,679
energy

2803
02:00:19,030 --> 02:00:15,040
all of these things are in fact

2804
02:00:22,870 --> 02:00:19,040
patches ad hoc x post facto

2805
02:00:24,790 --> 02:00:22,880
patches added to the existing

2806
02:00:28,149 --> 02:00:24,800
theoretical structure

2807
02:00:31,270 --> 02:00:28,159
to prevent those structures from

2808
02:00:31,830 --> 02:00:31,280
collapsing in the case of contrary

2809
02:00:34,790 --> 02:00:31,840
evidence

2810
02:00:36,310 --> 02:00:34,800
that's right it's temporary yeah it's

2811
02:00:39,430 --> 02:00:36,320
temporary let's take our break right

2812
02:00:41,589 --> 02:00:39,440
here what a great conversation tonight

2813
02:00:43,270 --> 02:00:41,599

what a great conversation rick delano

2814

02:00:45,430 --> 02:00:43,280

we're talking about the new film

2815

02:00:46,790 --> 02:00:45,440

the end of quantum reality when we come

2816

02:00:50,149 --> 02:00:46,800

back the c

2817

02:00:50,790 --> 02:00:50,159

word consciousness we'll get to all of

2818

02:00:52,830 --> 02:00:50,800

that

2819

02:00:57,270 --> 02:00:52,840

right after this short break stay with

2820

02:01:04,950 --> 02:00:58,709

hi everybody this is rob halpert the

2821

02:01:08,470 --> 02:01:07,430

this is kgra digital broadcasting

2822

02:01:12,149 --> 02:01:08,480

station

2823

02:01:13,990 --> 02:01:12,159

salt lake city utah van buren arkansas

2824

02:01:16,070 --> 02:01:14,000

why is it we're not very good with our

2825

02:01:17,830 --> 02:01:16,080

health regiment until it's too late we

2826

02:01:19,669 --> 02:01:17,840

don't put oil in the car until the

2827

02:01:20,470 --> 02:01:19,679

engine blows up when the body's out of

2828

02:01:22,550 --> 02:01:20,480

balance

2829

02:01:23,669 --> 02:01:22,560

your health is not so good give your

2830

02:01:26,070 --> 02:01:23,679

body some love

2831

02:01:27,030 --> 02:01:26,080

log on to get the tea dot com that's get

2832

02:01:29,189 --> 02:01:27,040

the tea

2833

02:01:31,589 --> 02:01:29,199

dot com try our life change tea which

2834

02:01:33,830 --> 02:01:31,599

cleanses you from harmful intruders

2835

02:01:35,350 --> 02:01:33,840

a clean colon is one of the ways to

2836

02:01:37,270 --> 02:01:35,360

bring the body in balance

2837

02:01:39,589 --> 02:01:37,280

we also carry organic supplements to

2838

02:01:41,910 --> 02:01:39,599

help you get where you need to go

2839

02:01:45,990 --> 02:01:41,920

so do your body a favor log on to get

2840

02:01:48,229 --> 02:01:46,000

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

2841

02:01:49,430 --> 02:01:48,239

you can even visit our sales page to

2842

02:01:51,669 --> 02:01:49,440

save some dough

2843

02:01:53,430 --> 02:01:51,679

does anybody call money dough anymore

2844

02:01:54,629 --> 02:01:53,440

anyway if you're looking for short

2845

02:01:57,109 --> 02:01:54,639

helpful health tips

2846

02:01:58,390 --> 02:01:57,119

go to youtube and punch in health

2847

02:02:06,229 --> 02:01:58,400

matters now

2848

02:02:08,550 --> 02:02:06,239

log on to getthet.com shop get balanced

2849

02:02:09,669 --> 02:02:08,560

then learn some cool tips at health

2850

02:02:11,470 --> 02:02:09,679

matters now

2851
02:02:13,669 --> 02:02:11,480
you'll be glad you did that's get the

2852
02:02:15,669 --> 02:02:13,679
tea.com

2853
02:02:18,669 --> 02:02:15,679
your contact for current news and

2854
02:02:20,550 --> 02:02:18,679
trending topics

2855
02:02:22,310 --> 02:02:20,560
kgraradio.com

2856
02:02:24,149 --> 02:02:22,320
this is jimmy church of fade to black

2857
02:02:27,270 --> 02:02:24,159
and i only drink

2858
02:02:27,990 --> 02:02:27,280
fade to black blend coffee from river

2859
02:02:32,229 --> 02:02:28,000
moon

2860
02:02:35,589 --> 02:02:32,239
banner at jimmychurchradio.com

2861
02:02:38,149 --> 02:02:35,599
promo code f2b blend

2862
02:02:40,070 --> 02:02:38,159
let's face it you've always wanted to do

2863
02:02:43,589 --> 02:02:40,080

a sky watch and see your first

2864

02:02:47,189 --> 02:02:43,599

ufo today it's easy just get your own

2865

02:02:48,390 --> 02:02:47,199

hp 7 3b cobalt jimmy church edition

2866

02:02:50,870 --> 02:02:48,400

night vision goggles

2867

02:02:53,350 --> 02:02:50,880

from hoffman's optics this is the same

2868

02:02:54,629 --> 02:02:53,360

u.s military system that i use featuring

2869

02:02:57,510 --> 02:02:54,639

a generation 3

2870

02:02:58,470 --> 02:02:57,520

blue phosphor image tube that's right

2871

02:03:01,350 --> 02:02:58,480

it's blue

2872

02:03:03,189 --> 02:03:01,360

not black and green this is the only

2873

02:03:03,910 --> 02:03:03,199

blue system in the world and it's

2874

02:03:06,550 --> 02:03:03,920

waterproof

2875

02:03:08,070 --> 02:03:06,560

lightweight combat proven simple to use

2876

02:03:10,390 --> 02:03:08,080

and ready to go

2877

02:03:11,830 --> 02:03:10,400

off men's optics help create night

2878

02:03:13,750 --> 02:03:11,840

vision sky watches

2879

02:03:15,669 --> 02:03:13,760

and now you can see what everyone has

2880

02:03:16,790 --> 02:03:15,679

been talking about each night from your

2881

02:03:20,310 --> 02:03:16,800

own backyard

2882

02:03:27,430 --> 02:03:20,320

just call 760-231-9929

2883

02:03:31,430 --> 02:03:29,510

night 760-231-9929 goggles dot com

2884

02:03:36,070 --> 02:03:31,440

that's ufo night vision

2885

02:03:41,510 --> 02:03:36,080

goggles dot com go back lee tappy

2886

02:03:41,520 --> 02:03:50,550

make is they gra radio dot com

2887

02:03:53,750 --> 02:03:52,390

when you're in the house for longer

2888

02:03:56,069 --> 02:03:53,760

periods of time

2889

02:03:57,830 --> 02:03:56,079

you can see them flying or running

2890

02:04:00,870 --> 02:03:57,840

across the floor

2891

02:04:04,069 --> 02:04:00,880

ooh yuck they're unhealthy

2892

02:04:07,109 --> 02:04:04,079

gross and disgusting bugs i

2893

02:04:10,229 --> 02:04:07,119

loathe bugs we keep a clean home

2894

02:04:11,589 --> 02:04:10,239

but occasionally bugs show up well i

2895

02:04:14,629 --> 02:04:11,599

found something that is

2896

02:04:15,430 --> 02:04:14,639

tougher than bugs orange guard on

2897

02:04:18,709 --> 02:04:15,440

contact

2898

02:04:21,910 --> 02:04:18,719

it kills hidden bugs including ants

2899

02:04:24,709 --> 02:04:21,920

roaches and fleas plus orange guard

2900

02:04:26,709 --> 02:04:24,719

is a residual repellent all of the

2901
02:04:27,430 --> 02:04:26,719
ingredients of orange guard are on the

2902
02:04:30,470 --> 02:04:27,440
fda

2903
02:04:31,830 --> 02:04:30,480
generally recognized as safe list orange

2904
02:04:35,830 --> 02:04:31,840
guard may be used around

2905
02:04:38,149 --> 02:04:35,840
food humans and pets it comes with a 30

2906
02:04:40,750 --> 02:04:38,159
day money back guarantee

2907
02:04:42,229 --> 02:04:40,760
orange guard available at

2908
02:04:46,550 --> 02:04:42,239
orangeguard.com

2909
02:04:51,270 --> 02:04:49,109
telepath is a weekly digital newsletter

2910
02:04:53,750 --> 02:04:51,280
filled with the latest paranormal news

2911
02:04:55,030 --> 02:04:53,760
trending topics and fresh articles from

2912
02:04:57,589 --> 02:04:55,040
some of the most popular

2913
02:04:59,030 --> 02:04:57,599

critical thinkers in the community today

2914

02:05:00,550 --> 02:04:59,040

stay informed on your favorite

2915

02:05:03,030 --> 02:05:00,560

paranormal podcasts

2916

02:05:04,629 --> 02:05:03,040

and live streaming talk shows interact

2917

02:05:06,390 --> 02:05:04,639

with the telepath and upload your

2918

02:05:08,310 --> 02:05:06,400

paranormal story or picks

2919

02:05:10,950 --> 02:05:08,320

it could be featured in an upcoming

2920

02:05:13,510 --> 02:05:10,960

edition sign up right now for the free

2921

02:05:14,149 --> 02:05:13,520

telepath newsletter at paranormal dot

2922

02:05:22,860 --> 02:05:14,159

radio

2923

02:05:28,790 --> 02:05:25,669

[Applause]

2924

02:05:32,629 --> 02:05:28,800

you want to know a secret i love

2925

02:05:34,550 --> 02:05:32,639

ponies i really love ponies i'm serious

2926

02:05:36,229 --> 02:05:34,560

i couldn't stay sane without pulling

2927

02:05:39,510 --> 02:05:36,239

instabrush

2928

02:05:40,470 --> 02:05:39,520

why fade to black because you never got

2929

02:05:44,790 --> 02:05:40,480

that pony

2930

02:05:48,069 --> 02:05:46,950

this is fade to black with jimmy church

2931

02:05:54,130 --> 02:05:48,079

on the game changer

2932

02:06:00,830 --> 02:05:59,190

[Music]

2933

02:06:05,350 --> 02:06:00,840

[Applause]

2934

02:06:09,669 --> 02:06:07,510

welcome back fade to black i'm watching

2935

02:06:12,069 --> 02:06:09,679

twitter tonight

2936

02:06:13,750 --> 02:06:12,079

our guest rick delano we're talking

2937

02:06:16,149 --> 02:06:13,760

about his new film it's called the end

2938

02:06:17,189 --> 02:06:16,159

of quantum reality extraordinary piece

2939

02:06:20,229 --> 02:06:17,199

of work

2940

02:06:21,030 --> 02:06:20,239

and i just highly recommend it and you

2941

02:06:23,750 --> 02:06:21,040

know when i

2942

02:06:24,870 --> 02:06:23,760

say go that means go you've got to check

2943

02:06:28,149 --> 02:06:24,880

out the end of quantum

2944

02:06:31,030 --> 02:06:28,159

reality but also i'm watching in

2945

02:06:34,629 --> 02:06:31,040

twitter uh rick it's all your fault we

2946

02:06:38,069 --> 02:06:36,390

nothing but cat videos tonight

2947

02:06:41,189 --> 02:06:38,079

everybody's got their version of

2948

02:06:43,510 --> 02:06:41,199

schroedinger's cat now um uh

2949

02:06:44,870 --> 02:06:43,520

here's the deal the c word right

2950

02:06:48,790 --> 02:06:44,880

consciousness

2951

02:06:52,790 --> 02:06:48,800

um and one of i

2952

02:06:55,910 --> 02:06:52,800

i i do this and i do this often

2953

02:06:57,830 --> 02:06:55,920

when i am watching uh

2954

02:06:59,510 --> 02:06:57,840

one of the rock stars you know get

2955

02:07:00,870 --> 02:06:59,520

interviewed and

2956

02:07:02,310 --> 02:07:00,880

and they're doing a presentation

2957

02:07:04,229 --> 02:07:02,320

whatever and and the question of

2958

02:07:08,069 --> 02:07:04,239

consciousness comes up

2959

02:07:11,350 --> 02:07:08,079

uh they squirm they get negative um

2960

02:07:14,149 --> 02:07:11,360

and they don't have an

2961

02:07:15,990 --> 02:07:14,159

answer and this is the thing and this is

2962

02:07:19,270 --> 02:07:16,000

my opinion

2963

02:07:20,229 --> 02:07:19,280

but they want us to accept parallel

2964

02:07:22,709 --> 02:07:20,239

worlds and

2965

02:07:24,470 --> 02:07:22,719

the multiverse and entanglement and

2966

02:07:28,550 --> 02:07:24,480

schrodinger's cat and

2967

02:07:29,030 --> 02:07:28,560

and uh a time travel right they want us

2968

02:07:31,270 --> 02:07:29,040

to

2969

02:07:32,870 --> 02:07:31,280

understand all of this because of the

2970

02:07:35,830 --> 02:07:32,880

equations and the way they

2971

02:07:37,270 --> 02:07:35,840

uh present themselves but the biggest

2972

02:07:39,430 --> 02:07:37,280

question of all

2973

02:07:40,709 --> 02:07:39,440

consciousness which gives them the

2974

02:07:43,830 --> 02:07:40,719

ability

2975

02:07:45,510 --> 02:07:43,840

to drone on and on which i appreciate

2976
02:07:46,709 --> 02:07:45,520
and i appreciate the science and i love

2977
02:07:50,390 --> 02:07:46,719
the science

2978
02:07:53,750 --> 02:07:50,400
but you can't dismiss one and have us

2979
02:07:55,109 --> 02:07:53,760
accept the other science fiction and i

2980
02:07:58,149 --> 02:07:55,119
find that completely

2981
02:08:01,030 --> 02:07:58,159
offensive um thank goodness for

2982
02:08:02,149 --> 02:08:01,040
dr wolfgang smith right where he's

2983
02:08:05,669 --> 02:08:02,159
willing to take this

2984
02:08:08,310 --> 02:08:05,679
head on and and the two communities

2985
02:08:11,109 --> 02:08:08,320
the spiritual one and the science one

2986
02:08:14,709 --> 02:08:11,119
are on their way to a train wreck

2987
02:08:18,870 --> 02:08:14,719
they are going to hit head on eventually

2988
02:08:20,550 --> 02:08:18,880

and we need science to now focus on this

2989

02:08:21,990 --> 02:08:20,560

well you're right you're exactly right

2990

02:08:25,109 --> 02:08:22,000

the train wreck is well

2991

02:08:28,390 --> 02:08:25,119

underway the train wreck comes

2992

02:08:32,149 --> 02:08:28,400

when the world story

2993

02:08:35,669 --> 02:08:32,159

no longer commands

2994

02:08:39,030 --> 02:08:35,679

enough acceptance

2995

02:08:41,510 --> 02:08:39,040

to qualify as the unifying principle of

2996

02:08:46,629 --> 02:08:41,520

our view of reality and we are

2997

02:08:48,950 --> 02:08:46,639

just at the beginning of that stage

2998

02:08:49,990 --> 02:08:48,960

where the present world story is falling

2999

02:08:54,149 --> 02:08:50,000

apart it no

3000

02:08:57,430 --> 02:08:54,159

longer stands up to its own standards

3001

02:09:01,510 --> 02:08:57,440

of credibility now the reason that

3002

02:09:04,470 --> 02:09:01,520

wolfgang smith stands head and shoulders

3003

02:09:06,709 --> 02:09:04,480

above every one of the physicists that i

3004

02:09:10,629 --> 02:09:06,719

interviewed for the principal

3005

02:09:14,149 --> 02:09:10,639

and why i am absolutely persuaded that

3006

02:09:17,270 --> 02:09:14,159

100 or 200 years downstream here

3007

02:09:21,430 --> 02:09:17,280

everyone will know wolfgang smith's name

3008

02:09:24,950 --> 02:09:21,440

and no one will know max tag mark's name

3009

02:09:28,069 --> 02:09:24,960

it's because wolfgang smith

3010

02:09:32,390 --> 02:09:28,079

is the only guy i know in the world

3011

02:09:35,510 --> 02:09:32,400

who has world class credentials

3012

02:09:40,229 --> 02:09:35,520

in mathematics and physics

3013

02:09:44,709 --> 02:09:40,239

used them professionally for decades

3014

02:09:48,470 --> 02:09:44,719

and at the same time made contact

3015

02:09:51,270 --> 02:09:48,480

with this remarkable notion

3016

02:09:52,790 --> 02:09:51,280

that everyone who lived before newton

3017

02:09:56,870 --> 02:09:52,800

wasn't a complete

3018

02:10:00,069 --> 02:09:56,880

dummy that we have essentially

3019

02:10:03,430 --> 02:10:00,079

walked away from 5 000 years

3020

02:10:07,589 --> 02:10:03,440

of human wisdom that was

3021

02:10:11,270 --> 02:10:07,599

acquired at immense cost

3022

02:10:12,069 --> 02:10:11,280

by geniuses in the millennia and

3023

02:10:15,350 --> 02:10:12,079

centuries

3024

02:10:18,470 --> 02:10:15,360

before enlightenment science arose

3025

02:10:20,470 --> 02:10:18,480

in the world and wolfgang understood

3026

02:10:24,149 --> 02:10:20,480

very early in life that

3027

02:10:27,910 --> 02:10:24,159

science was not going to be able to

3028

02:10:29,510 --> 02:10:27,920

explain to us the totality of this

3029

02:10:33,510 --> 02:10:29,520

universe

3030

02:10:36,550 --> 02:10:33,520

because science you see is a magnificent

3031

02:10:40,229 --> 02:10:36,560

tool for examining that

3032

02:10:42,350 --> 02:10:40,239

portion of the universe that can be

3033

02:10:44,790 --> 02:10:42,360

described

3034

02:10:49,510 --> 02:10:44,800

quantitatively

3035

02:10:52,629 --> 02:10:49,520

science proceeds on the assumption

3036

02:10:56,550 --> 02:10:52,639

that the world ultimately reduces to

3037

02:10:59,589 --> 02:10:56,560

quantity to that which can be expressed

3038

02:11:02,790 --> 02:10:59,599

in a mathematical equation

3039

02:11:04,709 --> 02:11:02,800

that is a gigantic assumption it was

3040

02:11:06,470 --> 02:11:04,719

quite useful to get science off the

3041

02:11:08,950 --> 02:11:06,480

launch pad

3042

02:11:11,470 --> 02:11:08,960

but what wolfgang understood very early

3043

02:11:14,790 --> 02:11:11,480

on was that this is a

3044

02:11:17,990 --> 02:11:14,800

completely ridiculous

3045

02:11:22,390 --> 02:11:18,000

notion the world in fact

3046

02:11:24,950 --> 02:11:22,400

does not reduce to quantity

3047

02:11:26,709 --> 02:11:24,960

as a matter of fact the vast majority of

3048

02:11:29,109 --> 02:11:26,719

the world that matters to us

3049

02:11:32,310 --> 02:11:29,119

as human beings can't be expressed

3050

02:11:34,149 --> 02:11:32,320

quantitatively at all

3051
02:11:37,189 --> 02:11:34,159
there are people listening to my voice

3052
02:11:39,109 --> 02:11:37,199
who love their wives and children and

3053
02:11:41,990 --> 02:11:39,119
husbands

3054
02:11:42,709 --> 02:11:42,000
there is no equation to express that

3055
02:11:45,270 --> 02:11:42,719
that's right

3056
02:11:47,589 --> 02:11:45,280
and yes the physicist when you really

3057
02:11:50,069 --> 02:11:47,599
pin him down is going to insist that

3058
02:11:52,390 --> 02:11:50,079
all of this is an illusion you see these

3059
02:11:56,550 --> 02:11:52,400
are just subjective

3060
02:12:00,709 --> 02:11:56,560
outcomes of neuron paths in our brains

3061
02:12:03,910 --> 02:12:00,719
which are constructing the illusion

3062
02:12:05,990 --> 02:12:03,920
of oh that's a beautiful sunset

3063
02:12:07,430 --> 02:12:06,000

no it isn't really it's just certain

3064

02:12:10,629 --> 02:12:07,440

wavelengths of light

3065

02:12:13,910 --> 02:12:10,639

being uh uh affected by the

3066

02:12:17,189 --> 02:12:13,920

refraction index of the atmosphere

3067

02:12:20,310 --> 02:12:17,199

you see that's an inadequate expression

3068

02:12:23,430 --> 02:12:20,320

of reality that is not

3069

02:12:26,709 --> 02:12:23,440

reality it is a component

3070

02:12:28,229 --> 02:12:26,719

of reality yes part of what makes that a

3071

02:12:31,669 --> 02:12:28,239

beautiful sunset

3072

02:12:34,149 --> 02:12:31,679

is the wavelengths of light being

3073

02:12:37,750 --> 02:12:34,159

refracted through the atmosphere that

3074

02:12:41,109 --> 02:12:37,760

expresses the quantitative side

3075

02:12:42,550 --> 02:12:41,119

but it doesn't even begin to encompass

3076

02:12:45,669 --> 02:12:42,560

the truth

3077

02:12:49,350 --> 02:12:45,679

of what that sunset really is

3078

02:12:51,430 --> 02:12:49,360

wolfgang understood this early enough

3079

02:12:53,430 --> 02:12:51,440

and he was well educated in the hard

3080

02:12:54,629 --> 02:12:53,440

sciences and mathematical sciences

3081

02:12:56,950 --> 02:12:54,639

enough

3082

02:12:59,990 --> 02:12:56,960

to be able to do the most important

3083

02:13:03,350 --> 02:13:00,000

thing it is possible to do right now

3084

02:13:03,990 --> 02:13:03,360

point the way forward to the inevitable

3085

02:13:10,870 --> 02:13:04,000

next

3086

02:13:11,669 --> 02:13:10,880

story the one that we will find

3087

02:13:15,830 --> 02:13:11,679

ourselves

3088

02:13:17,109 --> 02:13:15,840

constructing once the pillars really do

3089

02:13:20,310 --> 02:13:17,119

collapse

3090

02:13:21,669 --> 02:13:20,320

on the multiverse and many worlds

3091

02:13:23,350 --> 02:13:21,679

and that was going to look something

3092

02:13:25,990 --> 02:13:23,360

like this according to wolfgang and i i

3093

02:13:29,270 --> 02:13:26,000

think he's right

3094

02:13:32,229 --> 02:13:29,280

physics will have to surrender its

3095

02:13:34,470 --> 02:13:32,239

totalist pretensions and and they were

3096

02:13:36,229 --> 02:13:34,480

always just an illusion anyway

3097

02:13:37,430 --> 02:13:36,239

this idea of the theory of everything or

3098

02:13:38,709 --> 02:13:37,440

an equation you were going to write down

3099

02:13:40,069 --> 02:13:38,719

on a t-shirt that would explain

3100

02:13:41,589 --> 02:13:40,079

everything in the universe that was

3101

02:13:45,270 --> 02:13:41,599

never anything other than an

3102

02:13:48,950 --> 02:13:45,280

illusion in the first place once science

3103

02:13:50,229 --> 02:13:48,960

surrenders its totalist pretensions

3104

02:13:52,229 --> 02:13:50,239

it'll be the best thing that ever

3105

02:13:55,750 --> 02:13:52,239

happened to it because it will then

3106

02:13:57,350 --> 02:13:55,760

understand that its method is perfectly

3107

02:14:01,109 --> 02:13:57,360

situated

3108

02:14:05,030 --> 02:14:01,119

to explore that part of reality

3109

02:14:07,189 --> 02:14:05,040

that can be known through its methods

3110

02:14:09,030 --> 02:14:07,199

great news jimmy we get to keep our

3111

02:14:11,189 --> 02:14:09,040

computers our electric guitars

3112

02:14:12,390 --> 02:14:11,199

and our television sets we don't have to

3113

02:14:15,430 --> 02:14:12,400

give them up

3114

02:14:16,390 --> 02:14:15,440

well science can well okay we can

3115

02:14:22,950 --> 02:14:16,400

continue to

3116

02:14:24,229 --> 02:14:22,960

aspects of reality but these other

3117

02:14:26,550 --> 02:14:24,239

aspects

3118

02:14:27,270 --> 02:14:26,560

are not illusions they are not the

3119

02:14:30,390 --> 02:14:27,280

product of

3120

02:14:33,990 --> 02:14:30,400

neurotic neuronal interactions in

3121

02:14:36,550 --> 02:14:34,000

a brain they actually point

3122

02:14:38,069 --> 02:14:36,560

to that part of reality that humanity

3123

02:14:41,270 --> 02:14:38,079

has always known

3124

02:14:42,950 --> 02:14:41,280

is real what some would call the

3125

02:14:45,510 --> 02:14:42,960

spiritual

3126

02:14:46,709 --> 02:14:45,520

uh what wolfgang calls vertical

3127

02:14:51,830 --> 02:14:46,719

causation

3128

02:14:54,950 --> 02:14:51,840

from down at the bottom in the particles

3129

02:14:58,790 --> 02:14:54,960

but emanate from above from

3130

02:14:59,910 --> 02:14:58,800

higher domains and the knowledge that we

3131

02:15:02,310 --> 02:14:59,920

have acquired

3132

02:15:04,629 --> 02:15:02,320

from the great ancient schools

3133

02:15:07,550 --> 02:15:04,639

concerning these higher domains

3134

02:15:09,270 --> 02:15:07,560

are proving themselves to be absolutely

3135

02:15:12,470 --> 02:15:09,280

indispensable

3136

02:15:13,669 --> 02:15:12,480

in resolving for example schrodinger's

3137

02:15:18,629 --> 02:15:13,679

cat

3138

02:15:20,629 --> 02:15:18,639

dead or alive

3139

02:15:22,390 --> 02:15:20,639

when quantum mechanics tells us it is

3140

02:15:25,750 --> 02:15:22,400

both dead and alive

3141

02:15:29,350 --> 02:15:25,760

wolfgang smith can answer that question

3142

02:15:33,750 --> 02:15:29,360

because wolfgang smith understands

3143

02:15:37,910 --> 02:15:33,760

the nature of the ancient wisdom schools

3144

02:15:39,830 --> 02:15:37,920

which dealt with the questions of being

3145

02:15:42,390 --> 02:15:39,840

there's no mathematical equation for

3146

02:15:43,510 --> 02:15:42,400

being there's no mathematical equation

3147

02:15:46,390 --> 02:15:43,520

for laughter

3148

02:15:48,830 --> 02:15:46,400

right doesn't exist yeah exactly these

3149

02:15:51,910 --> 02:15:48,840

are not illusions these are not

3150

02:15:55,510 --> 02:15:51,920

subjective illusions of

3151

02:15:58,790 --> 02:15:55,520

neurons in our brains we are actually

3152

02:16:02,790 --> 02:15:58,800

in a world where these things

3153

02:16:03,189 --> 02:16:02,800

are not only real they are more real and

3154

02:16:05,350 --> 02:16:03,199

more

3155

02:16:06,550 --> 02:16:05,360

fundamental than the physicists

3156

02:16:10,229 --> 02:16:06,560

equations

3157

02:16:12,709 --> 02:16:10,239

are real we explored

3158

02:16:13,510 --> 02:16:12,719

i'm sorry i interrupted you no no no go

3159

02:16:15,830 --> 02:16:13,520

right ahead

3160

02:16:18,709 --> 02:16:15,840

this is what wolfgang is on to and this

3161

02:16:21,669 --> 02:16:18,719

is why i think that uh that he has

3162

02:16:22,709 --> 02:16:21,679

he's the first one to really point the

3163

02:16:24,629 --> 02:16:22,719

way forward here

3164

02:16:26,790 --> 02:16:24,639

he's way ahead of his time probably 40

3165

02:16:30,390 --> 02:16:26,800

years ahead of his time

3166

02:16:33,830 --> 02:16:30,400

but he has it we explored all of this

3167

02:16:34,709 --> 02:16:33,840

um in our new series it's called the h

3168

02:16:37,910 --> 02:16:34,719

factor

3169

02:16:41,110 --> 02:16:37,920

and pushing the envelope with uh

3170

02:16:42,469 --> 02:16:41,120

the transition of you know probably the

3171

02:16:44,549 --> 02:16:42,479

most fantastic

3172

02:16:45,669 --> 02:16:44,559

thing creation in the universe is the

3173

02:16:48,709 --> 02:16:45,679

human brain

3174

02:16:51,990 --> 02:16:48,719

and and what what

3175

02:16:54,230 --> 02:16:52,000

you know how does consciousness arrive

3176
02:16:55,429 --> 02:16:54,240
from you know three and a half pounds of

3177
02:16:57,589 --> 02:16:55,439
gray goop

3178
02:16:59,669 --> 02:16:57,599
you know inside of our skulls but this

3179
02:17:00,389 --> 02:16:59,679
is this is the issue that i have with

3180
02:17:02,549 --> 02:17:00,399
that

3181
02:17:03,429 --> 02:17:02,559
there's a there's a lot of uh

3182
02:17:06,230 --> 02:17:03,439
intelligent

3183
02:17:07,110 --> 02:17:06,240
people out there pursuing uh

3184
02:17:09,429 --> 02:17:07,120
consciousness

3185
02:17:10,709 --> 02:17:09,439
and going to speak with the dalai lama

3186
02:17:13,110 --> 02:17:10,719
and trying to figure out

3187
02:17:14,870 --> 02:17:13,120
artificial intelligence and and is

3188
02:17:17,830 --> 02:17:14,880

consciousness coming into play

3189

02:17:19,110 --> 02:17:17,840

but we've got to get somebody like

3190

02:17:22,150 --> 02:17:19,120

lawrence krauss

3191

02:17:24,629 --> 02:17:22,160

or richard dawkins to flip

3192

02:17:26,709 --> 02:17:24,639

right and and well they never will flip

3193

02:17:29,830 --> 02:17:26,719

that it would be like asking the

3194

02:17:30,309 --> 02:17:29,840

you know it would be like asking uh you

3195

02:17:35,830 --> 02:17:30,319

know

3196

02:17:36,549 --> 02:17:35,840

asking donald trump to flip democrat or

3197

02:17:39,349 --> 02:17:36,559

asking

3198

02:17:40,790 --> 02:17:39,359

kamala harris to flip republican their

3199

02:17:43,910 --> 02:17:40,800

flags are planted

3200

02:17:46,150 --> 02:17:43,920

they have built their forts upon fixed

3201
02:17:46,629 --> 02:17:46,160
fortifications that is the great general

3202
02:17:51,190 --> 02:17:46,639
george

3203
02:17:53,750 --> 02:17:51,200
s patton once said fixed fortifications

3204
02:17:55,270 --> 02:17:53,760
are a monument to the stupidity of

3205
02:17:58,469 --> 02:17:55,280
mankind

3206
02:18:00,870 --> 02:17:58,479
let them have their fortress let them

3207
02:18:04,469 --> 02:18:00,880
have their moment in the sun

3208
02:18:07,669 --> 02:18:04,479
the world is moving on they have

3209
02:18:10,309 --> 02:18:07,679
no answers they have a following

3210
02:18:12,070 --> 02:18:10,319
they have a status and that's fine let

3211
02:18:14,150 --> 02:18:12,080
them enjoy it

3212
02:18:15,190 --> 02:18:14,160
the future does not belong to them the

3213
02:18:17,429 --> 02:18:15,200

past and

3214

02:18:18,629 --> 02:18:17,439

to a certain extent the present belongs

3215

02:18:21,190 --> 02:18:18,639

to them

3216

02:18:24,870 --> 02:18:21,200

but here's one thing i can tell you for

3217

02:18:29,910 --> 02:18:24,880

for whatever it's worth

3218

02:18:32,389 --> 02:18:29,920

any attempt no matter what it is

3219

02:18:34,309 --> 02:18:32,399

to explain and again the word

3220

02:18:36,629 --> 02:18:34,319

consciousness is rather ill-defined

3221

02:18:41,830 --> 02:18:36,639

it it it doesn't have a rigorous meaning

3222

02:18:47,990 --> 02:18:45,750

is intelligibility

3223

02:18:51,349 --> 02:18:48,000

in other words when we look out at the

3224

02:18:54,230 --> 02:18:51,359

world we don't need to do the equation

3225

02:18:55,589 --> 02:18:54,240

that tells us that that's a beautiful

3226

02:18:58,230 --> 02:18:55,599

blue sky

3227

02:18:59,750 --> 02:18:58,240

oh look at the lovely green trees we

3228

02:19:01,270 --> 02:18:59,760

don't have to calculate which

3229

02:19:04,549 --> 02:19:01,280

wavelengths our eyes

3230

02:19:05,270 --> 02:19:04,559

are receiving this is what the ancients

3231

02:19:08,389 --> 02:19:05,280

called

3232

02:19:09,270 --> 02:19:08,399

the intellect the the ability to

3233

02:19:12,709 --> 02:19:09,280

directly

3234

02:19:14,950 --> 02:19:12,719

perceive being this is not a

3235

02:19:15,270 --> 02:19:14,960

mathematical process and it is not even

3236

02:19:42,230 --> 02:19:15,280

a

3237

02:19:45,509 --> 02:19:42,240

notion

3238

02:19:47,270 --> 02:19:45,519

that quantity is everything

3239

02:19:49,190 --> 02:19:47,280

that we have almost subconsciously

3240

02:19:50,790 --> 02:19:49,200

accepted it if you can't write it

3241

02:19:54,950 --> 02:19:50,800

down in the equation it can't be

3242

02:19:57,830 --> 02:19:54,960

true and that is the greatest

3243

02:20:00,230 --> 02:19:57,840

challenge that we face and luckily we're

3244

02:20:04,309 --> 02:20:00,240

making some real progress

3245

02:20:08,070 --> 02:20:04,319

because quantum physics has presented us

3246

02:20:10,389 --> 02:20:08,080

with a fundamental inability

3247

02:20:11,110 --> 02:20:10,399

to use mathematics to explain something

3248

02:20:13,030 --> 02:20:11,120

that happens

3249

02:20:16,150 --> 02:20:13,040

every time we measure a quantum system

3250

02:20:17,830 --> 02:20:16,160

in the lab the wave function collapse is

3251

02:20:20,630 --> 02:20:17,840

instantaneous

3252

02:20:21,990 --> 02:20:20,640

unpredictable and cannot be described by

3253

02:20:24,230 --> 02:20:22,000

any equation

3254

02:20:25,670 --> 02:20:24,240

it collapses the best equation we have

3255

02:20:28,150 --> 02:20:25,680

the schrodinger equation

3256

02:20:30,309 --> 02:20:28,160

you measure a quantum system boom right

3257

02:20:31,349 --> 02:20:30,319

then right there the schrodinger

3258

02:20:35,110 --> 02:20:31,359

equation

3259

02:20:37,349 --> 02:20:35,120

collapses why well they don't have the

3260

02:20:40,469 --> 02:20:37,359

faintest idea why

3261

02:20:41,190 --> 02:20:40,479

because theoretically there should be no

3262

02:20:43,830 --> 02:20:41,200

collapse at

3263

02:20:45,270 --> 02:20:43,840

all i mean look the detector is just

3264

02:20:47,349 --> 02:20:45,280

another collection of quantum

3265

02:20:49,270 --> 02:20:47,359

particles they should obey the quantity

3266

02:20:52,469 --> 02:20:49,280

the schrodinger equation too

3267

02:20:55,910 --> 02:20:52,479

but they don't why

3268

02:20:58,309 --> 02:20:55,920

what is it about the detector

3269

02:21:00,309 --> 02:20:58,319

this is the most interesting question in

3270

02:21:02,070 --> 02:21:00,319

physics right now

3271

02:21:03,750 --> 02:21:02,080

and by the way one of the people who was

3272

02:21:05,190 --> 02:21:03,760

in the principle but by the way

3273

02:21:07,830 --> 02:21:05,200

the man i thought was the most

3274

02:21:09,030 --> 02:21:07,840

impressive of all the physicists that i

3275

02:21:10,950 --> 02:21:09,040

interviewed for the principal is a man

3276

02:21:13,429 --> 02:21:10,960

named george ellis

3277

02:21:14,389 --> 02:21:13,439

george ellis just only about two years

3278

02:21:17,670 --> 02:21:14,399

ago published an

3279

02:21:21,270 --> 02:21:17,680

absolutely monumental paper

3280

02:21:23,510 --> 02:21:21,280

examining the quantum measuring problem

3281

02:21:25,590 --> 02:21:23,520

in detail and you know what he concluded

3282

02:21:30,550 --> 02:21:25,600

he concluded

3283

02:21:33,110 --> 02:21:30,560

that there exists a form of causation

3284

02:21:34,110 --> 02:21:33,120

in every quantum measurement that he

3285

02:21:37,030 --> 02:21:34,120

calls

3286

02:21:37,910 --> 02:21:37,040

top-down causation this is formal

3287

02:21:40,950 --> 02:21:37,920

causation

3288

02:21:43,830 --> 02:21:40,960

unknown to physics

3289

02:21:44,630 --> 02:21:43,840

and he says this is unquestionably

3290

02:21:47,270 --> 02:21:44,640

active in

3291

02:21:48,550 --> 02:21:47,280

every collapse of a quantum wave

3292

02:21:50,710 --> 02:21:48,560

function

3293

02:21:51,670 --> 02:21:50,720

this is the beginning of a monumental

3294

02:21:54,150 --> 02:21:51,680

change

3295

02:21:55,910 --> 02:21:54,160

i i always say that when you watch the

3296

02:21:56,710 --> 02:21:55,920

end of quantum reality you will find

3297

02:21:59,830 --> 02:21:56,720

your world

3298

02:22:01,990 --> 02:21:59,840

turned right side up because

3299

02:22:03,910 --> 02:22:02,000

top-down causation is just another

3300

02:22:05,590 --> 02:22:03,920

version of what wolfgang smith told us

3301

02:22:08,469 --> 02:22:05,600

30 years ago was

3302

02:22:10,469 --> 02:22:08,479

vertical causation and all of a sudden

3303

02:22:12,309 --> 02:22:10,479

instead of looking down down down down

3304

02:22:13,750 --> 02:22:12,319

down down down deeper and deeper deeper

3305

02:22:15,830 --> 02:22:13,760

to the smaller and smaller and smaller

3306

02:22:19,270 --> 02:22:15,840

and smaller

3307

02:22:19,590 --> 02:22:19,280

we have to look up again we have to look

3308

02:22:23,429 --> 02:22:19,600

up

3309

02:22:27,110 --> 02:22:23,439

and recognize active forms of causation

3310

02:22:30,389 --> 02:22:27,120

in our world that do not reduce

3311

02:22:33,110 --> 02:22:30,399

to mathematical equations this is the

3312

02:22:34,630 --> 02:22:33,120

recovery of the vertical dimension of

3313

02:22:38,150 --> 02:22:34,640

reality

3314

02:22:41,270 --> 02:22:38,160

and it will be a monumental change

3315

02:22:44,469 --> 02:22:41,280

in our civilization if

3316

02:22:47,910 --> 02:22:44,479

if if science did

3317

02:22:50,230 --> 02:22:47,920

choose to focus on

3318

02:22:51,830 --> 02:22:50,240

an attempted measurement of of

3319

02:22:54,230 --> 02:22:51,840

consciousness

3320

02:22:55,190 --> 02:22:54,240

which i think directly connects to not

3321

02:22:58,389 --> 02:22:55,200

only em

3322

02:22:59,830 --> 02:22:58,399

but uh uh entanglement and

3323

02:23:02,469 --> 02:22:59,840

and other things that have been

3324

02:23:05,990 --> 02:23:02,479

presented in theoretical physics

3325

02:23:07,910 --> 02:23:06,000

um if they were able to do that

3326

02:23:09,750 --> 02:23:07,920

or no if they were able to take the same

3327

02:23:10,070 --> 02:23:09,760

energies that they have been focusing

3328

02:23:13,030 --> 02:23:10,080

with

3329

02:23:13,830 --> 02:23:13,040

in in other avenues couldn't they turn

3330

02:23:17,110 --> 02:23:13,840

around

3331

02:23:17,990 --> 02:23:17,120

and and focus on consciousness and talk

3332

02:23:20,230 --> 02:23:18,000

to the spiritual

3333

02:23:21,990 --> 02:23:20,240

community and and start to make these

3334

02:23:24,950 --> 02:23:22,000

direct connections and possibly

3335

02:23:25,830 --> 02:23:24,960

measure the one great question that has

3336

02:23:28,630 --> 02:23:25,840

been around

3337

02:23:30,070 --> 02:23:28,640

since the dawn of time which is who are

3338

02:23:33,270 --> 02:23:30,080

we why are we here

3339

02:23:35,750 --> 02:23:33,280

and and where are we going unfortunately

3340

02:23:37,830 --> 02:23:35,760

their method only allows them to explore

3341

02:23:40,309 --> 02:23:37,840

the quantitative

3342

02:23:42,150 --> 02:23:40,319

aspects of this question and the

3343

02:23:43,110 --> 02:23:42,160

quantitative aspects of this question

3344

02:23:46,870 --> 02:23:43,120

are by far

3345

02:23:49,830 --> 02:23:46,880

the least important now

3346

02:23:50,870 --> 02:23:49,840

science will inevitably it's already

3347

02:23:54,630 --> 02:23:50,880

started to happen

3348

02:23:56,710 --> 02:23:54,640

and it cannot be stopped science will

3349

02:23:58,950 --> 02:23:56,720

probably within the lifetime of the

3350

02:24:02,469 --> 02:23:58,960

younger people listening

3351

02:24:04,790 --> 02:24:02,479

will be forced to admit that it

3352

02:24:06,630 --> 02:24:04,800

cannot provide us a comprehensive

3353

02:24:08,710 --> 02:24:06,640

picture of the world

3354

02:24:09,670 --> 02:24:08,720

that there are elements in the world

3355

02:24:13,510 --> 02:24:09,680

which are both

3356

02:24:16,950 --> 02:24:13,520

real and causative

3357

02:24:19,349 --> 02:24:16,960

that do not reduce to quantity that will

3358

02:24:24,230 --> 02:24:19,359

probably happen within the next

3359

02:24:27,590 --> 02:24:24,240

20 to 40 years however

3360

02:24:30,710 --> 02:24:27,600

what that means in terms of

3361

02:24:33,030 --> 02:24:30,720

okay so we

3362

02:24:33,750 --> 02:24:33,040

can't describe consciousness just in

3363

02:24:36,950 --> 02:24:33,760

terms of

3364

02:24:39,349 --> 02:24:36,960

neuron interactions in the brain

3365

02:24:41,590 --> 02:24:39,359

because all of those are implicitly

3366

02:24:43,110 --> 02:24:41,600

reducible to quantity

3367

02:24:46,710 --> 02:24:43,120

you may not have a computer that's

3368

02:24:49,910 --> 02:24:46,720

powerful enough to do all of that math

3369

02:24:53,750 --> 02:24:49,920

but at least theoretically

3370

02:24:57,230 --> 02:24:53,760

all of those interactions are implicitly

3371

02:25:01,590 --> 02:24:57,240

susceptible of being represented

3372

02:25:06,790 --> 02:25:01,600

quantitatively the problem is this

3373

02:25:10,070 --> 02:25:06,800

there is no chance none whatsoever

3374

02:25:14,309 --> 02:25:10,080

that the actions of the human

3375

02:25:17,030 --> 02:25:14,319

intellect reduce to quantity

3376

02:25:18,710 --> 02:25:17,040

we do not calculate that beautiful

3377

02:25:23,270 --> 02:25:18,720

sunset

3378

02:25:26,630 --> 02:25:23,280

we simply receive it it is impossible

3379

02:25:30,150 --> 02:25:26,640

to derive that beautiful sunset as some

3380

02:25:32,630 --> 02:25:30,160

manipulation of neurons translating

3381

02:25:33,830 --> 02:25:32,640

a two-dimensional image hitting our

3382

02:25:36,389 --> 02:25:33,840

retinas

3383

02:25:38,230 --> 02:25:36,399

it doesn't work it hasn't worked it

3384

02:25:40,150 --> 02:25:38,240

never will work

3385

02:25:42,150 --> 02:25:40,160

we're going to have to recover that

3386

02:25:45,429 --> 02:25:42,160

aspect of reality

3387

02:25:48,630 --> 02:25:45,439

that pertains to the soul

3388

02:25:50,870 --> 02:25:48,640

the powers of the soul it's not the

3389

02:25:54,309 --> 02:25:50,880

powers of the brain

3390

02:25:56,550 --> 02:25:54,319

it's the powers of the being

3391

02:25:57,830 --> 02:25:56,560

and because that has fallen into such

3392

02:26:01,990 --> 02:25:57,840

disrepute

3393

02:26:05,110 --> 02:26:02,000

and disfavor in our scientific age

3394

02:26:07,349 --> 02:26:05,120

it'll be a while before science is

3395

02:26:08,469 --> 02:26:07,359

finally smart enough to say okay we know

3396

02:26:11,590 --> 02:26:08,479

there is something

3397

02:26:12,950 --> 02:26:11,600

up there our method will only allow us

3398

02:26:15,429 --> 02:26:12,960

to approach it from

3399

02:26:16,190 --> 02:26:15,439

below we will find very interesting

3400

02:26:19,830 --> 02:26:16,200

things at the

3401
02:26:21,670 --> 02:26:19,840
intersection of the quantitative and the

3402
02:26:23,910 --> 02:26:21,680
qualitative

3403
02:26:25,750 --> 02:26:23,920
but our method cannot take us anywhere

3404
02:26:28,469 --> 02:26:25,760
beyond the quantitative

3405
02:26:29,590 --> 02:26:28,479
that's why by the way jimmy i have a

3406
02:26:32,630 --> 02:26:29,600
standing

3407
02:26:36,070 --> 02:26:32,640
bet with anybody who wants to take it

3408
02:26:40,309 --> 02:26:36,080
there will never be any

3409
02:26:43,030 --> 02:26:40,319
actual artificial intelligence

3410
02:26:44,150 --> 02:26:43,040
the the the words artificial

3411
02:26:46,710 --> 02:26:44,160
intelligence

3412
02:26:47,190 --> 02:26:46,720
are at least as mutually contradictory

3413
02:26:50,469 --> 02:26:47,200

as

3414

02:26:51,910 --> 02:26:50,479

military intelligence the two simply do

3415

02:26:54,950 --> 02:26:51,920

not go together

3416

02:26:58,150 --> 02:26:54,960

intelligence has nothing to do

3417

02:26:59,030 --> 02:26:58,160

with algorithms intelligence has nothing

3418

02:27:03,710 --> 02:26:59,040

to do

3419

02:27:07,270 --> 02:27:03,720

with the direct

3420

02:27:08,950 --> 02:27:07,280

apprehension of the real

3421

02:27:11,270 --> 02:27:08,960

and that is something that mathematics

3422

02:27:12,870 --> 02:27:11,280

is simply not ever going to be able to

3423

02:27:16,389 --> 02:27:12,880

uh come to terms with

3424

02:27:19,750 --> 02:27:16,399

luckily there is enormous

3425

02:27:20,790 --> 02:27:19,760

knowledge wisdom rigorous scientific

3426

02:27:24,150 --> 02:27:20,800

knowledge

3427

02:27:25,910 --> 02:27:24,160

about this power

3428

02:27:28,150 --> 02:27:25,920

that the ancient wisdom schools spent

3429

02:27:30,309 --> 02:27:28,160

thousands of years

3430

02:27:31,830 --> 02:27:30,319

of compiling this is why wolfgang went

3431

02:27:35,030 --> 02:27:31,840

to india

3432

02:27:36,710 --> 02:27:35,040

was to contact these wisdom schools and

3433

02:27:40,230 --> 02:27:36,720

what he learned there is what

3434

02:27:41,670 --> 02:27:40,240

saved him from being sucked into this

3435

02:27:44,710 --> 02:27:41,680

black hole

3436

02:27:46,790 --> 02:27:44,720

of everything reduces to quantity

3437

02:27:48,389 --> 02:27:46,800

the most important thing is that the

3438

02:27:51,190 --> 02:27:48,399

world does not

3439

02:27:52,070 --> 02:27:51,200

reduce to quantity there are aspects of

3440

02:27:55,110 --> 02:27:52,080

the world

3441

02:27:56,830 --> 02:27:55,120

that no equation can ever comprehend but

3442

02:27:59,750 --> 02:27:56,840

our intellect

3443

02:28:01,030 --> 02:27:59,760

instantaneously and and intuitively

3444

02:28:04,230 --> 02:28:01,040

comprehend it

3445

02:28:06,550 --> 02:28:04,240

it really is a red apple out there it's

3446

02:28:09,990 --> 02:28:06,560

not just a bunch of neurons

3447

02:28:13,349 --> 02:28:10,000

giving us the illusion of one the world

3448

02:28:16,389 --> 02:28:13,359

that we perceive is in a very real sense

3449

02:28:17,670 --> 02:28:16,399

far more real than the world of the

3450

02:28:20,230 --> 02:28:17,680

physicist

3451
02:28:21,990 --> 02:28:20,240
and we all know it ran deep we all know

3452
02:28:22,870 --> 02:28:22,000
it every time we walk down a beautiful

3453
02:28:23,990 --> 02:28:22,880
sunset

3454
02:28:25,990 --> 02:28:24,000
down the street and watch a beautiful

3455
02:28:29,270 --> 02:28:26,000
sunset our being

3456
02:28:31,030 --> 02:28:29,280
knows even if our educated scientific

3457
02:28:33,830 --> 02:28:31,040
pretensions try to tell us

3458
02:28:34,950 --> 02:28:33,840
oh it's just wavelengths and uh and uh

3459
02:28:37,270 --> 02:28:34,960
refractions

3460
02:28:39,190 --> 02:28:37,280
well you know you know when these

3461
02:28:41,270 --> 02:28:39,200
scientists and and thinkers

3462
02:28:43,110 --> 02:28:41,280
you know go to tibet you know talk with

3463
02:28:44,070 --> 02:28:43,120

these teachers and leaders or the dalai

3464

02:28:46,710 --> 02:28:44,080

lama

3465

02:28:47,750 --> 02:28:46,720

they it's exactly what you're saying

3466

02:28:49,270 --> 02:28:47,760

they are turning around

3467

02:28:50,870 --> 02:28:49,280

you were going to come here sooner or

3468

02:28:53,510 --> 02:28:50,880

later

3469

02:28:54,070 --> 02:28:53,520

exactly you remember that story that

3470

02:28:56,630 --> 02:28:54,080

wonderful

3471

02:28:58,230 --> 02:28:56,640

story uh i i can't i i'm probably gonna

3472

02:29:00,469 --> 02:28:58,240

mess it up here but

3473

02:29:01,910 --> 02:29:00,479

you know the story is that uh the these

3474

02:29:05,750 --> 02:29:01,920

physicists are

3475

02:29:07,270 --> 02:29:05,760

climbing this straight up stroke like el

3476

02:29:10,309 --> 02:29:07,280

capitan you know they

3477

02:29:12,630 --> 02:29:10,319

struggle and struggling they finally

3478

02:29:13,830 --> 02:29:12,640

drag themselves over the top and they

3479

02:29:16,309 --> 02:29:13,840

see

3480

02:29:17,750 --> 02:29:16,319

a whole bunch of theologian and mystics

3481

02:29:18,150 --> 02:29:17,760

gathered around the campfire and they

3482

02:29:20,150 --> 02:29:18,160

say

3483

02:29:21,990 --> 02:29:20,160

oh good you finally made it come on over

3484

02:29:25,110 --> 02:29:22,000

so let's sit down and talk

3485

02:29:27,110 --> 02:29:25,120

that's exactly it you know um i say it

3486

02:29:27,750 --> 02:29:27,120

all the time but the most spiritual

3487

02:29:30,710 --> 02:29:27,760

person

3488

02:29:32,630 --> 02:29:30,720

on the planet is the physicist when the

3489

02:29:36,070 --> 02:29:32,640

plane is going down

3490

02:29:37,750 --> 02:29:36,080

oh boy i love it i love it i love it

3491

02:29:39,830 --> 02:29:37,760

and this is this is a beautiful thing

3492

02:29:41,510 --> 02:29:39,840

and what gives me such hope even though

3493

02:29:43,190 --> 02:29:41,520

we're entering into a very dark time

3494

02:29:45,110 --> 02:29:43,200

here yeah you know the

3495

02:29:47,830 --> 02:29:45,120

we are entering a period of

3496

02:29:51,750 --> 02:29:47,840

civilizational

3497

02:29:53,270 --> 02:29:51,760

trauma that may possibly be the greatest

3498

02:29:55,270 --> 02:29:53,280

in many many centuries

3499

02:29:57,830 --> 02:29:55,280

and that's scary in a way but it's also

3500

02:30:00,070 --> 02:29:57,840

incredibly hopeful

3501
02:30:01,429 --> 02:30:00,080
we're about to learn something we're

3502
02:30:04,150 --> 02:30:01,439
about to recover

3503
02:30:05,429 --> 02:30:04,160
a lost element of what it means to be

3504
02:30:07,590 --> 02:30:05,439
human

3505
02:30:08,870 --> 02:30:07,600
and that is going to make for a much in

3506
02:30:12,230 --> 02:30:08,880
my opinion

3507
02:30:15,270 --> 02:30:12,240
a much more beautiful world and

3508
02:30:17,110 --> 02:30:15,280
we just have to sort of stick stick

3509
02:30:19,990 --> 02:30:17,120
through the rough patch here

3510
02:30:22,070 --> 02:30:20,000
yeah do everything we can to to to pass

3511
02:30:24,950 --> 02:30:22,080
this on to the next generation

3512
02:30:26,070 --> 02:30:24,960
okay rick i'm going to ask you now uh i

3513
02:30:29,349 --> 02:30:26,080

need you to stay

3514

02:30:31,190 --> 02:30:29,359

overtime i need you for 20 more minutes

3515

02:30:34,389 --> 02:30:31,200

there's no way there's kind of what man

3516

02:30:36,150 --> 02:30:34,399

this conversation doesn't end now um but

3517

02:30:38,469 --> 02:30:36,160

you know what that reminds me of i used

3518

02:30:41,910 --> 02:30:38,479

to get so frustrated as a kid

3519

02:30:44,389 --> 02:30:41,920

uh but you know you see the wise man uh

3520

02:30:46,150 --> 02:30:44,399

always say well to go forward you must

3521

02:30:49,270 --> 02:30:46,160

first go back

3522

02:30:51,750 --> 02:30:49,280

to go up you must first go down

3523

02:30:52,950 --> 02:30:51,760

well you know what they're doing you

3524

02:30:54,950 --> 02:30:52,960

know what they're doing

3525

02:30:56,070 --> 02:30:54,960

they're trying to break you out of your

3526
02:30:58,870 --> 02:30:56,080
logical

3527
02:31:00,630 --> 02:30:58,880
habits of perception they're trying to

3528
02:31:03,830 --> 02:31:00,640
get you to recover that

3529
02:31:04,870 --> 02:31:03,840
direct unmediated perception of the

3530
02:31:07,830 --> 02:31:04,880
being

3531
02:31:08,630 --> 02:31:07,840
because it ain't logical i'm telling you

3532
02:31:11,750 --> 02:31:08,640
the the

3533
02:31:13,990 --> 02:31:11,760
human being has the power to

3534
02:31:15,670 --> 02:31:14,000
rationally chop things up into little

3535
02:31:18,550 --> 02:31:15,680
bits and that's very useful

3536
02:31:20,710 --> 02:31:18,560
very helpful helps us a lot because a

3537
02:31:21,670 --> 02:31:20,720
human being also has the ability to see

3538
02:31:24,710 --> 02:31:21,680

the whole

3539

02:31:26,710 --> 02:31:24,720

instantly and know it

3540

02:31:28,070 --> 02:31:26,720

not by thinking about it or analyzing it

3541

02:31:30,150 --> 02:31:28,080

but by perceiving

3542

02:31:32,070 --> 02:31:30,160

it and that's what we have to recover

3543

02:31:34,230 --> 02:31:32,080

and that's what we are going to recover

3544

02:31:35,910 --> 02:31:34,240

and we will and we will continue this

3545

02:31:37,750 --> 02:31:35,920

conversation right after this short

3546

02:31:41,270 --> 02:31:37,760

break we're heading into overtime

3547

02:31:42,630 --> 02:31:41,280

rick delano the new film is the end of

3548

02:31:44,309 --> 02:31:42,640

quantum reality

3549

02:31:46,950 --> 02:31:44,319

video on demand it's on all the

3550

02:31:48,790 --> 02:31:46,960

platforms out there highly recommend it

3551

02:31:49,990 --> 02:31:48,800

more with rick after this short break

3552

02:31:51,830 --> 02:31:50,000

this is faded black i

3553

02:31:54,070 --> 02:31:51,840

am your host jimmy church you can follow

3554

02:31:57,349 --> 02:31:54,080

me on twitter at jchurchradio

3555

02:32:01,190 --> 02:31:57,359

and uh rick what's your twitter

3556

02:32:02,150 --> 02:32:01,200

uh it is celos sophia oh god what is my

3557

02:32:05,590 --> 02:32:02,160

twitter

3558

02:32:07,349 --> 02:32:05,600

uh silos sophia.org we'll get it up

3559

02:32:08,550 --> 02:32:07,359

there right now in the feed we'll be

3560

02:32:15,349 --> 02:32:08,560

right back stay with us

3561

02:32:19,670 --> 02:32:17,670

hey what up y'all biblical fox here and

3562

02:32:24,870 --> 02:32:19,680

you are listening to my boy

3563

02:32:28,150 --> 02:32:24,880

jimmy church on jimmychurchradio.com

3564

02:32:35,429 --> 02:32:28,160

despite popular opinion reading a book

3565

02:32:39,190 --> 02:32:37,190

this is jimmy churchill fade to black

3566

02:32:42,389 --> 02:32:39,200

and i take life change tea

3567

02:32:43,110 --> 02:32:42,399

supplements every single day it's what i

3568

02:32:45,630 --> 02:32:43,120

do

3569

02:32:49,270 --> 02:32:45,640

click on their banner at

3570

02:32:54,070 --> 02:32:51,429

when you take the beans from central

3571

02:32:54,630 --> 02:32:54,080

america with dashes of indonesian and

3572

02:32:56,790 --> 02:32:54,640

african

3573

02:32:58,950 --> 02:32:56,800

mixed in and then roasted to the dark

3574

02:33:02,150 --> 02:32:58,960

side of fade to black

3575

02:33:05,110 --> 02:33:02,160

you create the ultimate brew of fringe

3576
02:33:06,790 --> 02:33:05,120
introducing the fade to black blend from

3577
02:33:09,750 --> 02:33:06,800
river moon coffee

3578
02:33:11,910 --> 02:33:09,760
yes river moon's darkest customized

3579
02:33:15,030 --> 02:33:11,920
roast was created for the love

3580
02:33:17,910 --> 02:33:15,040
of fade to black the alchemy of

3581
02:33:21,190 --> 02:33:17,920
masterful roasting and smoking the beans

3582
02:33:24,790 --> 02:33:21,200
is in every sip of this full-bodied dark

3583
02:33:26,710 --> 02:33:24,800
java i need my coffee doc deep

3584
02:33:29,270 --> 02:33:26,720
with distinct bittersweet chocolate

3585
02:33:31,670 --> 02:33:29,280
highlights just like the bunker

3586
02:33:32,550 --> 02:33:31,680
leaning further into the darkness of the

3587
02:33:34,950 --> 02:33:32,560
roast is

3588
02:33:35,830 --> 02:33:34,960

fade to black blend from river moon

3589

02:33:37,550 --> 02:33:35,840

coffee

3590

02:33:39,590 --> 02:33:37,560

just click on the banner at

3591

02:33:40,710 --> 02:33:39,600

jimmychurchradio.com and use the promo

3592

02:33:44,469 --> 02:33:40,720

code f2b

3593

02:33:47,990 --> 02:33:44,479

blend for 15 off of your order today

3594

02:33:49,990 --> 02:33:48,000

go back lee tappy

3595

02:33:51,590 --> 02:33:50,000

hello my name is billy carson and i'm a

3596

02:33:53,830 --> 02:33:51,600

best-selling author and the founder of

3597

02:33:54,950 --> 02:33:53,840

forbidden knowledge dot tv together with

3598

02:33:57,190 --> 02:33:54,960

my team we have built a

3599

02:33:58,790 --> 02:33:57,200

all new contest streaming tv platform

3600

02:33:59,349 --> 02:33:58,800

designed with every family member in

3601
02:34:00,870 --> 02:33:59,359
mind

3602
02:34:02,550 --> 02:34:00,880
if you have ever wanted to travel the

3603
02:34:03,990 --> 02:34:02,560
world and attend lectures and workshops

3604
02:34:04,630 --> 02:34:04,000
from your favorite speakers but weren't

3605
02:34:07,270 --> 02:34:04,640
able to

3606
02:34:07,990 --> 02:34:07,280
look no further forbidden knowledge dot

3607
02:34:09,670 --> 02:34:08,000
tv

3608
02:34:11,510 --> 02:34:09,680
there are dozens of workshops and

3609
02:34:13,590 --> 02:34:11,520
lectures from speakers you know and love

3610
02:34:15,510 --> 02:34:13,600
we have also included amazing categories

3611
02:34:16,070 --> 02:34:15,520
to assure that your consciousness is

3612
02:34:18,469 --> 02:34:16,080
entertained

3613
02:34:20,070 --> 02:34:18,479

and elevating on a daily basis amazing

3614

02:34:22,389 --> 02:34:20,080

interviews ancient history

3615

02:34:24,389 --> 02:34:22,399

ascension knowledge wisdom teachings

3616

02:34:26,630 --> 02:34:24,399

documentaries conspiracies

3617

02:34:29,349 --> 02:34:26,640

mysteries health and fitness conscious

3618

02:34:29,990 --> 02:34:29,359

cooking meditations finance yoga and so

3619

02:34:31,990 --> 02:34:30,000

much more

3620

02:34:34,230 --> 02:34:32,000

to start your free trial on any mobile

3621

02:34:35,830 --> 02:34:34,240

device or computer surf to forbidden

3622

02:34:37,510 --> 02:34:35,840

knowledge dot tv

3623

02:34:40,630 --> 02:34:37,520

that's forbidden knowledge with the

3624

02:34:43,030 --> 02:34:40,640

number four forbidden knowledge dot tv

3625

02:34:44,389 --> 02:34:43,040

again visit forbidden knowledge dot tv

3626

02:34:46,309 --> 02:34:44,399

today

3627

02:34:48,070 --> 02:34:46,319

the older we get the more important it

3628

02:34:50,389 --> 02:34:48,080

is to stay active and healthy

3629

02:34:52,469 --> 02:34:50,399

i exercise regularly eat right but

3630

02:34:54,389 --> 02:34:52,479

recently some new aches and pains have

3631

02:34:56,309 --> 02:34:54,399

really put a cramp in my routine

3632

02:34:58,870 --> 02:34:56,319

a good friend recently told me about

3633

02:35:01,190 --> 02:34:58,880

angioprim she said angioprim is the

3634

02:35:04,070 --> 02:35:01,200

original liquid oral chelation

3635

02:35:06,389 --> 02:35:04,080

supplement helping people since 2003.

3636

02:35:08,790 --> 02:35:06,399

chelation helps remove toxins heavy

3637

02:35:11,030 --> 02:35:08,800

metals calcium and cholesterol and veins

3638

02:35:11,349 --> 02:35:11,040

and arteries that may cause blockages

3639

02:35:14,230 --> 02:35:11,359

and

3640

02:35:16,469 --> 02:35:14,240

lead to unexplained pain research shows

3641

02:35:17,990 --> 02:35:16,479

the active ingredient in angiotrim has

3642

02:35:19,630 --> 02:35:18,000

superior oral chelation

3643

02:35:21,190 --> 02:35:19,640

action that may help promote good

3644

02:35:23,429 --> 02:35:21,200

cardiovascular health

3645

02:35:24,389 --> 02:35:23,439

after a few weeks of taking angiotrim my

3646

02:35:26,630 --> 02:35:24,399

pain was gone

3647

02:35:28,230 --> 02:35:26,640

now i'm back and more physically active

3648

02:35:31,710 --> 02:35:28,240

than ever find out more

3649

02:35:32,950 --> 02:35:31,720

go to angiotrim.com

3650

02:35:35,030 --> 02:35:32,960

a-n-g-i-o-p-r-i-m.com

3651

02:35:38,590 --> 02:35:35,040

or talk to a trained consultant call

3652

02:35:46,710 --> 02:35:44,550

954-882-7221 that's 954-882-7221

3653

02:35:47,750 --> 02:35:46,720

are you intrigued by paranormal talk

3654

02:35:50,230 --> 02:35:47,760

radio you

3655

02:35:51,110 --> 02:35:50,240

love the new paranormal radio app from

3656

02:35:53,670 --> 02:35:51,120

talk stream

3657

02:35:55,750 --> 02:35:53,680

live you'll find a great selection of

3658

02:35:58,870 --> 02:35:55,760

talk shows covering ufos

3659

02:36:01,270 --> 02:35:58,880

ghosts strange phenomena and much more

3660

02:36:03,030 --> 02:36:01,280

download the paranormal radio app now

3661

02:36:04,950 --> 02:36:03,040

and start listening to the very best in

3662

02:36:06,469 --> 02:36:04,960

paranormal talk entertainment

3663

02:36:09,349 --> 02:36:06,479

including the network you're listening

3664

02:36:13,940 --> 02:36:09,359

to right now the paranormal radio app

3665

02:36:20,830 --> 02:36:13,950

free in google play and the ios app

3666

02:36:40,220 --> 02:36:24,150

store not a lifestyle we chose

3667

02:36:40,230 --> 02:36:48,830

[Music]

3668

02:36:48,840 --> 02:36:54,070

jimmychurchradio.com

3669

02:36:57,590 --> 02:36:55,590

welcome back fade to black heading into

3670

02:36:59,030 --> 02:36:57,600

overtime rick delano

3671

02:37:00,630 --> 02:36:59,040

we're gonna go pole to pole there's no

3672

02:37:04,309 --> 02:37:00,640

way this conversation was

3673

02:37:07,670 --> 02:37:04,319

even close to ending

3674

02:37:07,990 --> 02:37:07,680

and uh you know uh rick i want to thank

3675

02:37:09,750 --> 02:37:08,000

you

3676

02:37:11,030 --> 02:37:09,760

uh for for the show tonight i look

3677

02:37:12,230 --> 02:37:11,040

forward to the next time that we have

3678

02:37:15,270 --> 02:37:12,240

you on so much

3679

02:37:16,550 --> 02:37:15,280

to discuss and we're just scratching the

3680

02:37:19,110 --> 02:37:16,560

surface tonight

3681

02:37:20,790 --> 02:37:19,120

uh it's your first time on the show but

3682

02:37:21,110 --> 02:37:20,800

uh i want to have some fun right now

3683

02:37:25,190 --> 02:37:21,120

let's

3684

02:37:29,110 --> 02:37:25,200

little bit uh for this last segment

3685

02:37:31,110 --> 02:37:29,120

and and it is this i talk about

3686

02:37:32,309 --> 02:37:31,120

the basics of the basics you know

3687

02:37:36,070 --> 02:37:32,319

particles

3688

02:37:38,870 --> 02:37:36,080

uh amino acids chemicals uh that are

3689

02:37:39,349 --> 02:37:38,880

everywhere in the universe and they only

3690

02:37:43,030 --> 02:37:39,359

can

3691

02:37:46,230 --> 02:37:43,040

combine so many ways and

3692

02:37:48,389 --> 02:37:46,240

certainly life on this earth is here

3693

02:37:49,750 --> 02:37:48,399

how we did it how it was pulled off was

3694

02:37:53,110 --> 02:37:49,760

it divine was there

3695

02:37:54,070 --> 02:37:53,120

some other intervention uh i'm open to

3696

02:37:57,910 --> 02:37:54,080

all ideas

3697

02:38:02,150 --> 02:37:57,920

but because of those basic thoughts

3698

02:38:05,830 --> 02:38:02,160

there must be a lot of life out there

3699

02:38:09,349 --> 02:38:05,840

how much life is in the milky way

3700

02:38:12,389 --> 02:38:09,359

uh i am i i agree with max tag mark

3701

02:38:16,150 --> 02:38:12,399

and the two of us are obviously

3702

02:38:18,630 --> 02:38:16,160

in a very significant minority

3703

02:38:19,270 --> 02:38:18,640

but i agree with max tegmark that we are

3704

02:38:21,750 --> 02:38:19,280

already

3705

02:38:24,389 --> 02:38:21,760

in possession of sufficient

3706

02:38:27,510 --> 02:38:24,399

observational evidence to conclude

3707

02:38:29,830 --> 02:38:27,520

with a very high degree of competence

3708

02:38:31,830 --> 02:38:29,840

that there is no intelligent life not

3709

02:38:34,469 --> 02:38:31,840

only in the milky way galaxy but in the

3710

02:38:37,590 --> 02:38:34,479

entire observable universe

3711

02:38:40,950 --> 02:38:37,600

anywhere except right

3712

02:38:41,670 --> 02:38:40,960

here now and when you say that which is

3713

02:38:44,790 --> 02:38:41,680

radical

3714

02:38:47,510 --> 02:38:44,800

right because uh

3715

02:38:48,230 --> 02:38:47,520

uh when we talk about the numbers just

3716

02:38:51,429 --> 02:38:48,240

just

3717

02:38:53,590 --> 02:38:51,439

fundamentals

3718

02:38:54,630 --> 02:38:53,600

elementals we're just talking about

3719

02:38:56,710 --> 02:38:54,640

numbers

3720

02:38:57,830 --> 02:38:56,720

if you shuffle a deck of cards

3721

02:39:03,110 --> 02:38:57,840

eventually

3722

02:39:06,309 --> 02:39:03,120

you shuffle them enough times

3723

02:39:08,389 --> 02:39:06,319

you're gonna repeat the shuffle right

3724

02:39:10,389 --> 02:39:08,399

absolutely as a matter of fact it's even

3725

02:39:13,590 --> 02:39:10,399

it's very simple

3726
02:39:16,870 --> 02:39:13,600
if in fact

3727
02:39:20,630 --> 02:39:16,880
life is simply the right

3728
02:39:24,429 --> 02:39:20,640
shuffle of the deck if we grant

3729
02:39:27,750 --> 02:39:24,439
that assumption that it is

3730
02:39:28,349 --> 02:39:27,760
incontestably certain that life should

3731
02:39:32,150 --> 02:39:28,359
be

3732
02:39:35,670 --> 02:39:32,160
absolutely everywhere in this universe

3733
02:39:39,910 --> 02:39:35,680
and everywhere in the milky way galaxy

3734
02:39:42,950 --> 02:39:39,920
the problem jimmy is that it is not

3735
02:39:45,990 --> 02:39:42,960
why here's the argument

3736
02:39:46,790 --> 02:39:46,000
max says you do basically a statistical

3737
02:39:49,750 --> 02:39:46,800
analysis

3738
02:39:51,429 --> 02:39:49,760

based on orders of magnitude you start

3739

02:39:54,389 --> 02:39:51,439

with a centimeter

3740

02:39:55,190 --> 02:39:54,399

then 10 centimeters then 100 centimeters

3741

02:39:58,790 --> 02:39:55,200

a meter

3742

02:40:02,950 --> 02:39:58,800

and you you keep extending out from

3743

02:40:06,230 --> 02:40:02,960

earth in orders of magnitude

3744

02:40:09,270 --> 02:40:06,240

if life is just a shuffle

3745

02:40:13,269 --> 02:40:09,280

of the deck

3746

02:40:16,950 --> 02:40:13,279

then that means that we know there are

3747

02:40:18,710 --> 02:40:16,960

billions of planets perfectly good for

3748

02:40:21,990 --> 02:40:18,720

life

3749

02:40:25,349 --> 02:40:22,000

just in our own milky way galaxy and

3750

02:40:28,790 --> 02:40:25,359

billions of those are

3751

02:40:31,750 --> 02:40:28,800

billions of years older than

3752

02:40:33,190 --> 02:40:31,760

the earth okay it's a statistical

3753

02:40:36,870 --> 02:40:33,200

certainty

3754

02:40:40,790 --> 02:40:36,880

here's the problem we first flew

3755

02:40:45,349 --> 02:40:40,800

under power in 1903

3756

02:40:48,710 --> 02:40:45,359

that's 117 years ago

3757

02:40:51,349 --> 02:40:48,720

we left the solar system

3758

02:40:53,269 --> 02:40:51,359

somewhere between about 2015 and about

3759

02:40:56,309 --> 02:40:53,279

2016 when the

3760

02:40:59,190 --> 02:40:56,319

voyager passed beyond the solar system

3761

02:40:59,590 --> 02:40:59,200

however you wanted to find it so it took

3762

02:41:02,630 --> 02:40:59,600

us

3763

02:41:06,389 --> 02:41:02,640

about a hundred and

3764

02:41:09,429 --> 02:41:06,399

thirteen or fourteen years to go from

3765

02:41:11,910 --> 02:41:09,439

very first powered flight to leaving the

3766

02:41:15,349 --> 02:41:11,920

solar system

3767

02:41:18,309 --> 02:41:15,359

where are we going to be in ten

3768

02:41:18,710 --> 02:41:18,319

000 years that isn't even a blink of an

3769

02:41:22,550 --> 02:41:18,720

eye

3770

02:41:25,830 --> 02:41:22,560

how about 100 how about a million years

3771

02:41:30,150 --> 02:41:25,840

still not even a blink how about

3772

02:41:33,110 --> 02:41:30,160

100 million years

3773

02:41:34,389 --> 02:41:33,120

this is what fermi's paradox is all

3774

02:41:37,030 --> 02:41:34,399

about

3775

02:41:38,389 --> 02:41:37,040

if life is just the right shuffle of the

3776

02:41:41,670 --> 02:41:38,399

cards

3777

02:41:43,429 --> 02:41:41,680

then it should have happened uncountably

3778

02:41:46,469 --> 02:41:43,439

billions of times

3779

02:41:50,550 --> 02:41:46,479

just in our own galaxy

3780

02:41:54,150 --> 02:41:50,560

and those planets have had billions

3781

02:41:58,070 --> 02:41:54,160

of years billions of years

3782

02:42:01,429 --> 02:41:58,080

to move out and colonize all of the

3783

02:42:05,750 --> 02:42:01,439

goldilocks zone planets

3784

02:42:09,110 --> 02:42:05,760

and it hasn't happened max's conclusion

3785

02:42:12,150 --> 02:42:09,120

is that it is extremely

3786

02:42:15,190 --> 02:42:12,160

confident yet he is extremely competent

3787

02:42:15,830 --> 02:42:15,200

on strictly statistical grounds that

3788

02:42:19,349 --> 02:42:15,840

there is

3789

02:42:20,550 --> 02:42:19,359

no intelligent life not merely in the

3790

02:42:24,230 --> 02:42:20,560

milky way

3791

02:42:27,670 --> 02:42:24,240

but in the entire observable universe

3792

02:42:30,950 --> 02:42:27,680

based upon the amount of time

3793

02:42:32,070 --> 02:42:30,960

that all of these billions upon billions

3794

02:42:35,429 --> 02:42:32,080

of correct

3795

02:42:37,910 --> 02:42:35,439

shuffles of the deck would have had

3796

02:42:40,469 --> 02:42:37,920

to get out and colonize all the

3797

02:42:43,429 --> 02:42:40,479

goldilocks zone planets

3798

02:42:44,150 --> 02:42:43,439

it hasn't happened we've been doing seti

3799

02:42:47,190 --> 02:42:44,160

now for

3800

02:42:50,550 --> 02:42:47,200

going on 50 years so we're out

3801
02:42:53,750 --> 02:42:50,560
50 light years in all directions now

3802
02:42:55,110 --> 02:42:53,760
and they're at a whisper out there jimmy

3803
02:42:57,269 --> 02:42:55,120
there's something wrong with that

3804
02:43:01,590 --> 02:42:57,279
assumption that life

3805
02:43:05,670 --> 02:43:01,600
is just the right shuffle of the deck

3806
02:43:08,630 --> 02:43:05,680
my counter to that is

3807
02:43:11,429 --> 02:43:08,640
actually a quite simple one and there's

3808
02:43:14,550 --> 02:43:11,439
a few different ways to look at it

3809
02:43:17,830 --> 02:43:14,560
number one it can

3810
02:43:21,590 --> 02:43:17,840
be as simple as uh

3811
02:43:24,630 --> 02:43:21,600
life out there is

3812
02:43:27,910 --> 02:43:24,640
communicating with each other

3813
02:43:31,510 --> 02:43:27,920

but it's not on our time scale that

3814

02:43:34,790 --> 02:43:31,520

what we are hearing is noise

3815

02:43:37,510 --> 02:43:34,800

what we are hearing is not visible to

3816

02:43:39,190 --> 02:43:37,520

us and i think that is a very simple way

3817

02:43:40,070 --> 02:43:39,200

to look at it number one if you want to

3818

02:43:43,030 --> 02:43:40,080

say

3819

02:43:43,510 --> 02:43:43,040

why aren't we seeing it but i would

3820

02:43:45,670 --> 02:43:43,520

counter

3821

02:43:47,349 --> 02:43:45,680

that journey for me but let me finish

3822

02:43:49,510 --> 02:43:47,359

the problem with that argument for me

3823

02:43:52,550 --> 02:43:49,520

and for all similar arguments

3824

02:43:53,910 --> 02:43:52,560

is that it's an argument from absence of

3825

02:43:56,550 --> 02:43:53,920

evidence

3826
02:43:58,469 --> 02:43:56,560
in other words the reason we don't see

3827
02:44:02,150 --> 02:43:58,479
angels

3828
02:44:06,469 --> 02:44:02,160
is because they occupy a

3829
02:44:09,269 --> 02:44:06,479
wavelength beyond our visual

3830
02:44:11,349 --> 02:44:09,279
apparatus okay well i certainly can't

3831
02:44:13,670 --> 02:44:11,359
falsify that

3832
02:44:14,950 --> 02:44:13,680
what i can say is that there is

3833
02:44:18,230 --> 02:44:14,960
absolutely no

3834
02:44:20,309 --> 02:44:18,240
evidence of that and

3835
02:44:21,750 --> 02:44:20,319
in the same way i can certainly agree

3836
02:44:24,950 --> 02:44:21,760
with you that it's it's

3837
02:44:28,309 --> 02:44:24,960
it's possible that

3838
02:44:29,750 --> 02:44:28,319

life is all around us and they are

3839

02:44:33,429 --> 02:44:29,760

hiding themselves from

3840

02:44:34,630 --> 02:44:33,439

our sensors and they are treating us as

3841

02:44:36,790 --> 02:44:34,640

a zoo

3842

02:44:38,630 --> 02:44:36,800

and you know you you can write five

3843

02:44:41,670 --> 02:44:38,640

great science fiction movies about that

3844

02:44:46,469 --> 02:44:41,680

the problem is there's absolutely

3845

02:44:49,190 --> 02:44:46,479

not the slightest bit of evidence that

3846

02:44:51,349 --> 02:44:49,200

that is in fact the case all that we

3847

02:44:54,790 --> 02:44:51,359

know for sure

3848

02:44:58,550 --> 02:44:54,800

is that the assumption that life

3849

02:45:00,710 --> 02:44:58,560

is a correct shuffle of the cards

3850

02:45:03,030 --> 02:45:00,720

means it should be absolutely everywhere

3851
02:45:05,190 --> 02:45:03,040
and at least some of it

3852
02:45:06,230 --> 02:45:05,200
should be strictly statistical

3853
02:45:09,830 --> 02:45:06,240
probabilities

3854
02:45:13,030 --> 02:45:09,840
be somewhat approximately where we are

3855
02:45:14,710 --> 02:45:13,040
or somewhere just beyond where we are

3856
02:45:16,230 --> 02:45:14,720
they should still be dealing with the

3857
02:45:18,070 --> 02:45:16,240
same technological i mean

3858
02:45:20,150 --> 02:45:18,080
look there's only a certain number of

3859
02:45:23,990 --> 02:45:20,160
ways to make semiconductors

3860
02:45:28,710 --> 02:45:24,000
but what you're suggesting though um

3861
02:45:31,670 --> 02:45:28,720
is that you have never seen or observed

3862
02:45:33,590 --> 02:45:31,680
something that you can't explain

3863
02:45:35,590 --> 02:45:33,600

you haven't had that paradigm shift

3864

02:45:37,990 --> 02:45:35,600

there are many things i can't explain

3865

02:45:39,110 --> 02:45:38,000

what i haven't observed what i have not

3866

02:45:42,389 --> 02:45:39,120

observed

3867

02:45:44,230 --> 02:45:42,399

is the slightest bit of evidence

3868

02:45:45,750 --> 02:45:44,240

that there is another intelligent

3869

02:45:49,590 --> 02:45:45,760

species

3870

02:45:53,750 --> 02:45:49,600

um that that or that

3871

02:45:56,790 --> 02:45:53,760

better said that there is a process

3872

02:46:00,150 --> 02:45:56,800

a law of biology

3873

02:46:05,429 --> 02:46:00,160

in the universe that will

3874

02:46:08,550 --> 02:46:05,439

naturally generate stupendous numbers

3875

02:46:09,110 --> 02:46:08,560

of intelligent species according to the

3876
02:46:12,710 --> 02:46:09,120
same

3877
02:46:17,590 --> 02:46:12,720
laws that generated ours right and that

3878
02:46:20,790 --> 02:46:17,600
this principle will spin off

3879
02:46:21,349 --> 02:46:20,800
at least tens of millions of intelligent

3880
02:46:22,950 --> 02:46:21,359
cultures

3881
02:46:25,030 --> 02:46:22,960
on the time scale that we are talking

3882
02:46:27,670 --> 02:46:25,040
about just in our own

3883
02:46:28,630 --> 02:46:27,680
little neck of the milky way there's no

3884
02:46:31,030 --> 02:46:28,640
evidence of this

3885
02:46:32,469 --> 02:46:31,040
right now that's the case if that's the

3886
02:46:38,870 --> 02:46:32,479
case

3887
02:46:41,990 --> 02:46:38,880
that we are it

3888
02:46:43,110 --> 02:46:42,000

then why take care of the planet why not

3889

02:46:45,030 --> 02:46:43,120

just party

3890

02:46:47,269 --> 02:46:45,040

there's no reason to meet our space

3891

02:46:48,790 --> 02:46:47,279

brothers so let's just burn this sucker

3892

02:46:52,950 --> 02:46:48,800

down there's no re

3893

02:46:56,550 --> 02:46:52,960

it's a lonely exit it would seem to me

3894

02:46:58,950 --> 02:46:56,560

that the idea that the thing that gives

3895

02:47:00,469 --> 02:46:58,960

meaning to our existence is meeting our

3896

02:47:03,670 --> 02:47:00,479

space brothers

3897

02:47:06,790 --> 02:47:03,680

is wrong that that is not in fact

3898

02:47:07,510 --> 02:47:06,800

the meaning of our existence that the

3899

02:47:11,349 --> 02:47:07,520

reason

3900

02:47:13,190 --> 02:47:11,359

that we are here and the purpose that we

3901

02:47:16,550 --> 02:47:13,200

are here to fulfill

3902

02:47:18,309 --> 02:47:16,560

is something other than meeting our

3903

02:47:21,429 --> 02:47:18,319

space brothers

3904

02:47:24,389 --> 02:47:21,439

now we know as a matter of fact it's a

3905

02:47:27,670 --> 02:47:24,399

matter of historical fact

3906

02:47:29,910 --> 02:47:27,680

that essentially zero human

3907

02:47:31,269 --> 02:47:29,920

civilizations

3908

02:47:33,590 --> 02:47:31,279

that have reached the stage where

3909

02:47:34,710 --> 02:47:33,600

they've left enough behind that we can

3910

02:47:37,830 --> 02:47:34,720

learn about them

3911

02:47:40,309 --> 02:47:37,840

right have believed that our purpose was

3912

02:47:43,590 --> 02:47:40,319

to meet our space brothers

3913

02:47:45,910 --> 02:47:43,600

that is a quintessentially modern idea

3914

02:47:48,950 --> 02:47:45,920

it is something that only emerges in

3915

02:47:49,349 --> 02:47:48,960

modern civilization which has in turn

3916

02:47:51,990 --> 02:47:49,359

been

3917

02:47:53,830 --> 02:47:52,000

shaped in its beliefs and outlooks by

3918

02:47:57,429 --> 02:47:53,840

science

3919

02:48:00,150 --> 02:47:57,439

prior to this scientific worldview

3920

02:48:00,469 --> 02:48:00,160

right we always understood ourselves to

3921

02:48:07,269 --> 02:48:00,479

be

3922

02:48:10,630 --> 02:48:07,279

lived

3923

02:48:11,510 --> 02:48:10,640

christian or otherwise up until the 17th

3924

02:48:14,550 --> 02:48:11,520

century

3925

02:48:15,269 --> 02:48:14,560

believed that the earth was unique and

3926

02:48:18,950 --> 02:48:15,279

indeed

3927

02:48:22,389 --> 02:48:18,960

central in the entire cosmos

3928

02:48:25,429 --> 02:48:22,399

that this was where all the action

3929

02:48:26,870 --> 02:48:25,439

is and the action is not meeting our

3930

02:48:30,389 --> 02:48:26,880

space brothers

3931

02:48:32,950 --> 02:48:30,399

the action is meeting our creator

3932

02:48:33,670 --> 02:48:32,960

this is the old world story that has

3933

02:48:37,030 --> 02:48:33,680

been

3934

02:48:37,830 --> 02:48:37,040

supplanted and overturned by the

3935

02:48:41,830 --> 02:48:37,840

enlightenment

3936

02:48:45,030 --> 02:48:41,840

scientific myth which myth

3937

02:48:48,150 --> 02:48:45,040

is more true which myth is more powerful

3938

02:48:49,429 --> 02:48:48,160

well that's the question at this point i

3939

02:48:52,630 --> 02:48:49,439

would argue

3940

02:48:54,469 --> 02:48:52,640

and i hope i'm not i mean i i certainly

3941

02:48:57,110 --> 02:48:54,479

acknowledge completely what you said

3942

02:48:57,990 --> 02:48:57,120

that max and i are in a drastic minority

3943

02:48:59,990 --> 02:48:58,000

here

3944

02:49:01,349 --> 02:49:00,000

you couldn't find five people who agree

3945

02:49:03,510 --> 02:49:01,359

with this you're right about

3946

02:49:05,349 --> 02:49:03,520

99 of the people are going to agree with

3947

02:49:09,830 --> 02:49:05,359

you you're right about that and

3948

02:49:14,790 --> 02:49:09,840

that that being said yes i nonetheless

3949

02:49:24,830 --> 02:49:18,630

the lack of any contact the lack of any

3950

02:49:30,710 --> 02:49:26,389

civilizations

3951

02:49:34,550 --> 02:49:30,720

to suggest that the

3952

02:49:38,230 --> 02:49:34,560

the old world story may just prove to

3953

02:49:41,190 --> 02:49:38,240

have a whole lot more meat on its bones

3954

02:49:42,230 --> 02:49:41,200

than uh then would be generally uh

3955

02:49:43,990 --> 02:49:42,240

anticipated

3956

02:49:45,590 --> 02:49:44,000

i'll put it that way yeah i agree with

3957

02:49:48,870 --> 02:49:45,600

that but there's there's

3958

02:49:50,710 --> 02:49:48,880

and this is where this is where

3959

02:49:51,910 --> 02:49:50,720

the line in the sand for me is

3960

02:49:55,269 --> 02:49:51,920

completely

3961

02:49:58,550 --> 02:49:55,279

defined and that is this now rick

3962

02:50:01,830 --> 02:49:58,560

just listen to what i have to say

3963

02:50:02,710 --> 02:50:01,840

i'm not i i'm i'm with this is an actual

3964

02:50:06,630 --> 02:50:02,720

event

3965

02:50:09,910 --> 02:50:06,640

okay i'm with 30 or 40 people

3966

02:50:13,030 --> 02:50:09,920

middle of the day we're up in washington

3967

02:50:15,269 --> 02:50:13,040

middle of the day beautiful blue sky

3968

02:50:16,710 --> 02:50:15,279

we're in front of mount adams which is

3969

02:50:19,910 --> 02:50:16,720

14 miles away

3970

02:50:21,590 --> 02:50:19,920

it's taking up our entire uh

3971

02:50:23,590 --> 02:50:21,600

field of view it's in front of us i'm

3972

02:50:26,309 --> 02:50:23,600

sitting at a picnic table

3973

02:50:27,670 --> 02:50:26,319

and uh and i've got a set of binoculars

3974

02:50:29,990 --> 02:50:27,680

on a tripod

3975

02:50:31,670 --> 02:50:30,000

and i'm looking at the mountain i'm

3976

02:50:33,349 --> 02:50:31,680

looking at the birds i'm looking at the

3977

02:50:35,429 --> 02:50:33,359

peak of the mountain

3978

02:50:37,190 --> 02:50:35,439

and uh it's about three o'clock in the

3979

02:50:38,150 --> 02:50:37,200

afternoon beautiful i'm listening to the

3980

02:50:41,030 --> 02:50:38,160

birds and

3981

02:50:42,070 --> 02:50:41,040

and things and i'm at this moment about

3982

02:50:43,590 --> 02:50:42,080

15 minutes i'm

3983

02:50:45,750 --> 02:50:43,600

looking at the mountain i'm at this

3984

02:50:49,429 --> 02:50:45,760

moment of tranquility

3985

02:50:52,950 --> 02:50:49,439

and at that exact moment of peacefulness

3986

02:50:54,630 --> 02:50:52,960

from behind the mountain which is 14

3987

02:51:00,389 --> 02:50:54,640

miles away

3988

02:51:03,590 --> 02:51:00,399

appears this ginormous

3989

02:51:05,349 --> 02:51:03,600

vertical i'm gonna guess and say 500

3990

02:51:08,710 --> 02:51:05,359

foot tall

3991

02:51:11,750 --> 02:51:08,720

beer can it's black

3992

02:51:14,230 --> 02:51:11,760

it's got a silver circle on the front

3993

02:51:15,429 --> 02:51:14,240

it is traveling from my left to my right

3994

02:51:18,309 --> 02:51:15,439

it's going from

3995

02:51:19,349 --> 02:51:18,319

west to east from behind the mountain

3996

02:51:22,389 --> 02:51:19,359

and it is

3997

02:51:25,349 --> 02:51:22,399

spinning slowly i can see the silver

3998

02:51:27,349 --> 02:51:25,359

circle on it turning it's got a little

3999

02:51:28,070 --> 02:51:27,359

silver top little silver bottom but it

4000

02:51:31,429 --> 02:51:28,080

looks like

4001
02:51:31,990 --> 02:51:31,439
the shape of a can and it's traveling

4002
02:51:33,910 --> 02:51:32,000
and

4003
02:51:35,030 --> 02:51:33,920
out of nowhere i'm just looking at the

4004
02:51:39,349 --> 02:51:35,040
birds

4005
02:51:42,550 --> 02:51:39,359
and it's 14 miles away i back i scream

4006
02:51:45,110 --> 02:51:42,560
and everybody sees it and

4007
02:51:46,550 --> 02:51:45,120
as it's slowly moving in the sky and it

4008
02:51:46,950 --> 02:51:46,560
looks like we're going to see it for the

4009
02:51:50,150 --> 02:51:46,960
next

4010
02:51:52,309 --> 02:51:50,160
hour by the speed and it's blue i see

4011
02:51:54,070 --> 02:51:52,319
the sun reflecting off of it it's

4012
02:51:57,510 --> 02:51:54,080
perfectly in focus

4013
02:51:59,590 --> 02:51:57,520

i can razor sharp edges it's beautiful

4014

02:52:00,230 --> 02:51:59,600

it's majestic i jump i got a video of

4015

02:52:03,590 --> 02:52:00,240

this

4016

02:52:05,349 --> 02:52:03,600

i jump up and i'm yelling video video

4017

02:52:07,830 --> 02:52:05,359

video pictures pictures everybody

4018

02:52:09,750 --> 02:52:07,840

look look everybody sees it everybody's

4019

02:52:11,990 --> 02:52:09,760

talking about i come back

4020

02:52:12,790 --> 02:52:12,000

i sit down at the binoculars i look

4021

02:52:15,990 --> 02:52:12,800

through it again

4022

02:52:17,510 --> 02:52:16,000

i see it i then take my eyes off the

4023

02:52:21,590 --> 02:52:17,520

binoculars

4024

02:52:23,830 --> 02:52:21,600

and i'm looking at it with my naked eyes

4025

02:52:25,030 --> 02:52:23,840

and then i go back to the binoculars and

4026
02:52:27,349 --> 02:52:25,040
it's gone

4027
02:52:28,950 --> 02:52:27,359
and i hear everybody so it lasted for

4028
02:52:32,230 --> 02:52:28,960
about 10 or 15 seconds

4029
02:52:34,309 --> 02:52:32,240
i hear everybody yelling it phased out

4030
02:52:36,309 --> 02:52:34,319
it just disappeared and i was like

4031
02:52:37,030 --> 02:52:36,319
that's impossible i come back off and i

4032
02:52:41,349 --> 02:52:37,040
look it's

4033
02:52:44,389 --> 02:52:41,359
gone disappeared out of the sky

4034
02:52:48,630 --> 02:52:44,399
now i ask you

4035
02:52:51,750 --> 02:52:48,640
what did i see it wasn't a helicopter

4036
02:52:53,349 --> 02:52:51,760
it wasn't a balloon it wasn't a plane it

4037
02:52:56,550 --> 02:52:53,359
wasn't a rocket

4038
02:52:57,349 --> 02:52:56,560

it wasn't anything that should be up in

4039

02:53:00,710 --> 02:52:57,359

the sky

4040

02:53:03,990 --> 02:53:00,720

and then disappear in front of everybody

4041

02:53:07,590 --> 02:53:04,000

and you're gonna tell me that that was

4042

02:53:09,830 --> 02:53:07,600

us that that was something that just

4043

02:53:11,110 --> 02:53:09,840

was created on this planet and is flying

4044

02:53:13,990 --> 02:53:11,120

around in the sky and then

4045

02:53:15,750 --> 02:53:14,000

disappears i didn't see it appear on the

4046

02:53:17,269 --> 02:53:15,760

other side of the mountain by the way

4047

02:53:18,870 --> 02:53:17,279

i was looking at the mountain for 15

4048

02:53:19,590 --> 02:53:18,880

minutes it came out from behind the

4049

02:53:21,510 --> 02:53:19,600

mountain

4050

02:53:23,510 --> 02:53:21,520

i don't know how and then started

4051
02:53:26,469 --> 02:53:23,520
cruising across the sky

4052
02:53:27,030 --> 02:53:26,479
so that tells i don't know what it was

4053
02:53:30,150 --> 02:53:27,040
but i

4054
02:53:31,429 --> 02:53:30,160
certainly have questions and i know that

4055
02:53:33,110 --> 02:53:31,439
wasn't anything

4056
02:53:35,750 --> 02:53:33,120
that has been flying around in the skies

4057
02:53:37,750 --> 02:53:35,760
or documented by anybody

4058
02:53:39,030 --> 02:53:37,760
so to say that we're alone in the

4059
02:53:42,230 --> 02:53:39,040
universe

4060
02:53:43,750 --> 02:53:42,240
well i don't know was that e.t i don't

4061
02:53:49,110 --> 02:53:43,760
know

4062
02:53:50,870 --> 02:53:49,120
and so to think that we're alone in the

4063
02:53:53,190 --> 02:53:50,880

universe and we're it and i'm seeing

4064

02:53:56,550 --> 02:53:53,200

stuff like that with our friends

4065

02:53:57,990 --> 02:53:56,560

i can't tell my friends ah that was

4066

02:54:00,309 --> 02:53:58,000

nothing

4067

02:54:01,910 --> 02:54:00,319

because that is a life-changing event

4068

02:54:02,389 --> 02:54:01,920

you know it was the middle of the day it

4069

02:54:07,110 --> 02:54:02,399

wasn't

4070

02:54:10,389 --> 02:54:07,120

that could be questioned

4071

02:54:13,910 --> 02:54:10,399

we all saw it and i don't know yeah

4072

02:54:16,309 --> 02:54:13,920

it's it's a very powerful uh testimony

4073

02:54:18,389 --> 02:54:16,319

yeah there's no doubt as i listen to you

4074

02:54:20,550 --> 02:54:18,399

recount this

4075

02:54:22,309 --> 02:54:20,560

you know i see it i mean this is

4076

02:54:24,469 --> 02:54:22,319

obviously something that uh

4077

02:54:26,469 --> 02:54:24,479

it wasn't a flying saucer i'm not saying

4078

02:54:27,590 --> 02:54:26,479

that right i'm not saying little green

4079

02:54:29,990 --> 02:54:27,600

man i'm not saying that

4080

02:54:30,790 --> 02:54:30,000

i'm not saying and in fact it was the

4081

02:54:32,950 --> 02:54:30,800

opposite

4082

02:54:35,110 --> 02:54:32,960

i'd be fascinated to see the video

4083

02:54:37,190 --> 02:54:35,120

sometime if we ever get a chance to do

4084

02:54:38,870 --> 02:54:37,200

that i would love to see the video

4085

02:54:40,230 --> 02:54:38,880

i don't have an answer that's going to

4086

02:54:44,870 --> 02:54:40,240

satisfy either you

4087

02:54:48,550 --> 02:54:44,880

or me what i will say is this

4088

02:54:52,389 --> 02:54:48,560

eyewitness evidence is evidence

4089

02:54:55,670 --> 02:54:52,399

it is um to simply

4090

02:54:58,469 --> 02:54:55,680

you know flick your wrist and

4091

02:55:00,870 --> 02:54:58,479

oh well you know i mean uh sounds to me

4092

02:55:04,550 --> 02:55:00,880

like you wanted a beer or something

4093

02:55:07,990 --> 02:55:04,560

you know that that's not really adequate

4094

02:55:15,349 --> 02:55:11,830

we must i think

4095

02:55:19,830 --> 02:55:15,359

both recognize

4096

02:55:22,389 --> 02:55:19,840

the power of this experience

4097

02:55:23,429 --> 02:55:22,399

i am perfectly willing to grant that

4098

02:55:26,469 --> 02:55:23,439

this

4099

02:55:30,710 --> 02:55:26,479

actually happened as you described it

4100

02:55:34,309 --> 02:55:30,720

you have witnesses you have video

4101
02:55:38,150 --> 02:55:34,319
um what

4102
02:55:42,230 --> 02:55:38,160
it means what it means in terms

4103
02:55:45,269 --> 02:55:42,240
of a demonstration

4104
02:55:47,429 --> 02:55:45,279
of the existence of intelligent life

4105
02:55:49,349 --> 02:55:47,439
elsewhere in the cosmos

4106
02:55:52,309 --> 02:55:49,359
that's a much different question it's a

4107
02:55:56,710 --> 02:55:52,319
big leap yeah sure yeah it's a big leap

4108
02:56:00,469 --> 02:55:56,720
and and so what i would say is that

4109
02:56:04,389 --> 02:56:00,479
i place a great deal

4110
02:56:05,110 --> 02:56:04,399
of credibility on truthful recounts of

4111
02:56:08,710 --> 02:56:05,120
eye

4112
02:56:11,990 --> 02:56:08,720
witnesses to me

4113
02:56:15,349 --> 02:56:12,000

if i saw it with my damned eyes

4114

02:56:16,790 --> 02:56:15,359

i'm gonna believe my damned eyes and if

4115

02:56:18,790 --> 02:56:16,800

you don't well

4116

02:56:20,150 --> 02:56:18,800

so much the worst for you i that's the

4117

02:56:23,110 --> 02:56:20,160

way i am

4118

02:56:25,269 --> 02:56:23,120

so i certainly can't blame you for

4119

02:56:28,309 --> 02:56:25,279

holding to the same

4120

02:56:31,830 --> 02:56:28,319

uh standard that i would hold if i saw

4121

02:56:35,110 --> 02:56:31,840

something with my eyes and i am

4122

02:56:38,550 --> 02:56:35,120

satisfied that this was not

4123

02:56:42,309 --> 02:56:38,560

you know a bit of undigested potato

4124

02:56:42,790 --> 02:56:42,319

but was in fact something in the in the

4125

02:56:45,590 --> 02:56:42,800

world

4126
02:56:46,389 --> 02:56:45,600
that this was something a being in the

4127
02:56:48,790 --> 02:56:46,399
world

4128
02:56:50,150 --> 02:56:48,800
now i want you to listen i i just pulled

4129
02:56:54,550 --> 02:56:50,160
up the video

4130
02:56:56,230 --> 02:56:54,560
this uh this is immediately after i

4131
02:56:59,510 --> 02:56:56,240
jumped up and yelled

4132
02:57:00,309 --> 02:56:59,520
i want you to see this just listen to

4133
02:57:04,150 --> 02:57:00,319
the audio

4134
02:57:07,510 --> 02:57:04,160
excuse

4135
02:57:10,790 --> 02:57:07,520
my profanity here we go

4136
02:57:15,269 --> 02:57:10,800
tell me somebody took a picture i

4137
02:57:17,590 --> 02:57:15,279
swear to god i will shoot everybody here

4138
02:57:19,110 --> 02:57:17,600

that's disappeared now oh no there it is

4139

02:57:32,230 --> 02:57:19,120

there it is i got it i heard it

4140

02:57:37,510 --> 02:57:35,590

okay who shot it okay now that's the

4141

02:57:40,309 --> 02:57:37,520

eyewitness it was shimmering

4142

02:57:40,790 --> 02:57:40,319

right and earlier if you were listening

4143

02:57:44,309 --> 02:57:40,800

uh

4144

02:57:46,469 --> 02:57:44,319

it was it was spinning right and so

4145

02:57:47,910 --> 02:57:46,479

there it is and then you heard as they

4146

02:57:55,750 --> 02:57:47,920

were watching

4147

02:57:59,190 --> 02:57:57,269

you could see it you could make it out

4148

02:58:00,150 --> 02:57:59,200

with the naked eye yep you can see it

4149

02:58:01,910 --> 02:58:00,160

spinning and

4150

02:58:03,590 --> 02:58:01,920

you heard somebody say it just

4151
02:58:06,550 --> 02:58:03,600
disappeared

4152
02:58:07,590 --> 02:58:06,560
right and and i think he's interesting

4153
02:58:10,389 --> 02:58:07,600
i'm gonna say

4154
02:58:11,750 --> 02:58:10,399
uh like i said it was 14 miles away and

4155
02:58:12,790 --> 02:58:11,760
the way it came out from behind the

4156
02:58:14,950 --> 02:58:12,800
mountain

4157
02:58:15,830 --> 02:58:14,960
um i've looked at a couple of uh still

4158
02:58:19,190 --> 02:58:15,840
images too

4159
02:58:22,309 --> 02:58:19,200
i'm gonna say probably 500 feet tall

4160
02:58:25,190 --> 02:58:22,319
um you know i don't know 100 feet across

4161
02:58:25,990 --> 02:58:25,200
that's the best way i could explain it

4162
02:58:29,269 --> 02:58:26,000
and

4163
02:58:31,990 --> 02:58:29,279

like i said the shape was like like a

4164

02:58:33,190 --> 02:58:32,000

like a like a can you know it was that

4165

02:58:35,910 --> 02:58:33,200

shape it was round

4166

02:58:36,790 --> 02:58:35,920

and it had this silver circle that was

4167

02:58:38,710 --> 02:58:36,800

huge

4168

02:58:39,910 --> 02:58:38,720

that was in the middle of it and you

4169

02:58:42,950 --> 02:58:39,920

could see that

4170

02:58:45,510 --> 02:58:42,960

spinning and shining off of the sun

4171

02:58:47,030 --> 02:58:45,520

every time it did this rotation about

4172

02:58:48,710 --> 02:58:47,040

every four or five seconds

4173

02:58:50,870 --> 02:58:48,720

you know very slow the whole thing was

4174

02:58:53,110 --> 02:58:50,880

slow the rotation was slow

4175

02:58:53,990 --> 02:58:53,120

it was moving in the sky slowly and it

4176
02:58:57,510 --> 02:58:54,000
was still

4177
02:58:58,830 --> 02:58:57,520
it was razor sharp it was crazy man

4178
02:59:00,950 --> 02:58:58,840
it was great i can't explain it

4179
02:59:03,510 --> 02:59:00,960
disappeared

4180
02:59:05,670 --> 02:59:03,520
i i didn't see it disappear that was the

4181
02:59:08,389 --> 02:59:05,680
thing i was going between naked eye

4182
02:59:09,990 --> 02:59:08,399
and the binoculars and when i came back

4183
02:59:11,269 --> 02:59:10,000
to the binoculars to look through it

4184
02:59:13,750 --> 02:59:11,279
again that's when somebody said it

4185
02:59:15,190 --> 02:59:13,760
phased out so i missed that part that's

4186
02:59:18,070 --> 02:59:15,200
an interesting expression

4187
02:59:20,389 --> 02:59:18,080
saved out that's what they said yes

4188
02:59:22,150 --> 02:59:20,399

that's an interesting expression

4189

02:59:23,510 --> 02:59:22,160

it doesn't say he didn't say it

4190

02:59:26,870 --> 02:59:23,520

disappeared he said

4191

02:59:29,269 --> 02:59:26,880

it phased out yeah yeah like i said

4192

02:59:32,389 --> 02:59:29,279

there was 30 40 people there

4193

02:59:33,190 --> 02:59:32,399

all they they got to see it disappear i

4194

02:59:36,870 --> 02:59:33,200

didn't

4195

02:59:42,070 --> 02:59:36,880

well i i i all honor all honor to your

4196

02:59:45,910 --> 02:59:42,080

uh to your uh to your insistence

4197

02:59:49,510 --> 02:59:45,920

that this does not fit um

4198

02:59:50,950 --> 02:59:49,520

it does not obviously and comfortably

4199

02:59:53,830 --> 02:59:50,960

fit

4200

02:59:54,870 --> 02:59:53,840

it was crazy rick hey you know i still

4201
02:59:59,269 --> 02:59:54,880
can't

4202
03:00:02,630 --> 02:59:59,279
see the video sometime

4203
03:00:05,670 --> 03:00:02,640
i i have never personally had a

4204
03:00:07,830 --> 03:00:05,680
similar experience i've seen a few

4205
03:00:11,030 --> 03:00:07,840
strange things in my time

4206
03:00:15,269 --> 03:00:11,040
but nothing like that and

4207
03:00:18,070 --> 03:00:15,279
i i i have to file this under

4208
03:00:19,750 --> 03:00:18,080
hmm that's right for now and that's why

4209
03:00:22,230 --> 03:00:19,760
you are rick delano

4210
03:00:24,389 --> 03:00:22,240
rick thank you thank you so much for the

4211
03:00:26,710 --> 03:00:24,399
conversation tonight man this was a

4212
03:00:27,750 --> 03:00:26,720
blast jimmy i can't tell you how much of

4213
03:00:30,469 --> 03:00:27,760

a pleasure it was

4214

03:00:32,710 --> 03:00:30,479

thanks for uh for uh spending the

4215

03:00:34,710 --> 03:00:32,720

evening with me and uh i hope uh your

4216

03:00:38,230 --> 03:00:34,720

audience enjoyed it and uh

4217

03:00:40,950 --> 03:00:38,240

i certainly did you're the best and uh

4218

03:00:42,990 --> 03:00:40,960

rick's website uh philosophy

4219

03:00:44,150 --> 03:00:43,000

dot org the links are over at

4220

03:00:47,349 --> 03:00:44,160

jimmychurchradio.com

4221

03:00:48,469 --> 03:00:47,359

the film is gonna be quite real send our

4222

03:00:50,630 --> 03:00:48,479

people over to

4223

03:00:51,590 --> 03:00:50,640

to look at this on your site i will hook

4224

03:00:54,550 --> 03:00:51,600

you up rick

4225

03:00:55,910 --> 03:00:54,560

there it is it's all easy and with that

4226

03:00:58,630 --> 03:00:55,920

i got to get out of here we

4227

03:01:00,150 --> 03:00:58,640

are about to leave the network so let me

4228

03:01:01,990 --> 03:01:00,160

get straight to credits thank you so

4229

03:01:03,910 --> 03:01:02,000

much rick stay right there

4230

03:01:05,510 --> 03:01:03,920

bay to black's executive producer is

4231

03:01:07,910 --> 03:01:05,520

rita kamarian show

4232

03:01:09,910 --> 03:01:07,920

is produced by steve harter jean patel

4233

03:01:12,870 --> 03:01:09,920

mark t kovar

4234

03:01:14,790 --> 03:01:12,880

hilton j palm renee dennis and kevin

4235

03:01:18,550 --> 03:01:14,800

webmaster is drew the geek music doug

4236

03:01:20,550 --> 03:01:18,560

aldrich intro spaceboy spaceboymusic.com

4237

03:01:22,230 --> 03:01:20,560

paid to black is produced by kjcr for

4238

03:01:23,990 --> 03:01:22,240

the game changer network consideration

4239

03:01:26,150 --> 03:01:24,000

is kgra

4240

03:01:28,389 --> 03:01:26,160

the planet this broadcast owned a

4241

03:01:29,510 --> 03:01:28,399

copyrighted 2020 by fade to black in the

4242

03:01:31,910 --> 03:01:29,520

game changer network

4243

03:01:33,510 --> 03:01:31,920

inc it cannot be rebroadcast downloaded

4244

03:01:34,230 --> 03:01:33,520

copied or used anywhere in the known

4245

03:01:35,830 --> 03:01:34,240

universe

4246

03:01:37,590 --> 03:01:35,840

without written permission from fade to

4247

03:01:39,990 --> 03:01:37,600

black or the game changer network

4248

03:01:41,510 --> 03:01:40,000

very special thanks to rick delano

4249

03:01:44,870 --> 03:01:41,520

tomorrow night right here stephen

4250

03:01:46,469 --> 03:01:44,880

bassett live from washington d.c

4251

03:01:47,990 --> 03:01:46,479

until tomorrow night i'm your host jimmy

4252

03:02:05,350 --> 03:01:48,000

church i want everybody to be