

1
00:00:00,000 --> 00:00:07,519
Thanks well thanks for having me here

2
00:00:02,908 --> 00:00:10,740
today the last time I addressed this SSC

3
00:00:07,519 --> 00:00:12,870
previously first time it was about 2007

4
00:00:10,740 --> 00:00:15,330
about my experience of anomalies and

5
00:00:12,869 --> 00:00:18,390
crop circles and then the year after

6
00:00:15,330 --> 00:00:20,730
that I came back and talked about what

7
00:00:18,390 --> 00:00:22,800
remote viewing tells us about UFOs and

8
00:00:20,730 --> 00:00:24,868
Roger Nelson has been twisting my arm

9
00:00:22,800 --> 00:00:26,939
every year about what I'm going to

10
00:00:24,868 --> 00:00:28,679
present next so thanks Roger and I also

11
00:00:26,939 --> 00:00:30,118
to thank Dan Sheehan for some

12
00:00:28,679 --> 00:00:33,869
conversations about this topic last year

13
00:00:30,118 --> 00:00:35,159
so I've been looking for ideas and

14
00:00:33,869 --> 00:00:36,988
theories that explain some of the

15
00:00:35,159 --> 00:00:38,308
phenomena that we talked about the

16
00:00:36,988 --> 00:00:40,169
things were interested in in this

17
00:00:38,308 --> 00:00:42,689
society and I haven't really come up

18
00:00:40,170 --> 00:00:46,170
with anything except recently I came

19
00:00:42,689 --> 00:00:47,549
across the idea of many worlds many

20
00:00:46,170 --> 00:00:49,890
worlds interpretation so I thought I'd

21
00:00:47,549 --> 00:00:52,709
investigate it so where does this begin

22
00:00:49,890 --> 00:00:54,299
it actually interesting enough has its

23
00:00:52,710 --> 00:00:56,448
genesis with the Copenhagen

24
00:00:54,299 --> 00:00:59,519
interpretation of quantum physics

25
00:00:56,448 --> 00:01:01,378
because if you know anything about the

26
00:00:59,520 --> 00:01:03,809
Copenhagen interpretation it tells us

27
00:01:01,378 --> 00:01:05,368
it's considered a non realistic model

28
00:01:03,808 --> 00:01:07,289
because it tells us there's a separation

29

00:01:05,368 --> 00:01:08,579
between the macrocosmic worlds which we

30
00:01:07,290 --> 00:01:11,430
experience personally and the

31
00:01:08,579 --> 00:01:13,920
microcosmic world of subatomic particles

32
00:01:11,430 --> 00:01:15,479
and basically it goes even further to

33
00:01:13,920 --> 00:01:17,129
tell us that there is no quantum world

34
00:01:15,478 --> 00:01:19,890
there's dis quantum description and

35
00:01:17,129 --> 00:01:21,780
people who were associated with Niels

36
00:01:19,890 --> 00:01:23,459
Bohr and his assistants basically told

37
00:01:21,780 --> 00:01:25,049
us don't look to quantum mechanics to

38
00:01:23,459 --> 00:01:27,059
explain anything else out of quantum

39
00:01:25,049 --> 00:01:28,470
mechanics it's not there's no quantum

40
00:01:27,060 --> 00:01:29,939
world there's this quantum description

41
00:01:28,469 --> 00:01:31,739
and all we need our classical

42
00:01:29,938 --> 00:01:34,529
measurements to tell us about the

43
00:01:31,739 --> 00:01:36,929

quantum world basically what Bohr said

44

00:01:34,530 --> 00:01:39,868
is that we're just reformulating

45

00:01:36,930 --> 00:01:41,368
classical mechanics to adapt for the you

46

00:01:39,868 --> 00:01:43,078
know to the existence of the quantum of

47

00:01:41,368 --> 00:01:47,009
action well a lot of people found this

48

00:01:43,078 --> 00:01:48,929
kind of not very satisfactory and there

49

00:01:47,009 --> 00:01:50,670
are two main challenges to Copenhagen

50

00:01:48,930 --> 00:01:52,110
and I know people have different ideas

51

00:01:50,670 --> 00:01:53,219
about what Copenhagen is but we only

52

00:01:52,109 --> 00:01:54,899
have ten minutes so we have to kind of

53

00:01:53,219 --> 00:01:58,140
keep it simple one is the preferred

54

00:01:54,899 --> 00:01:59,700
basis problem if everything at the basis

55

00:01:58,140 --> 00:02:01,739
of reality is generated from the

56

00:01:59,700 --> 00:02:03,600
Schrodinger wave equation why don't we

57

00:02:01,739 --> 00:02:05,519
see a kind of smeared out featureless

58
00:02:03,599 --> 00:02:06,959
wave-like reality why do things appear

59
00:02:05,519 --> 00:02:10,049
solid why didn't they take the features

60
00:02:06,959 --> 00:02:12,689
that they do and that's why does it

61
00:02:10,050 --> 00:02:14,100
appear to us the way it does secondly

62
00:02:12,689 --> 00:02:16,289
this is what Schrodinger referred to as

63
00:02:14,099 --> 00:02:18,930
jellyfish occation how come we don't

64
00:02:16,289 --> 00:02:20,159
observe the macrocosmic superpositions

65
00:02:18,930 --> 00:02:21,960
why do we see things at particular

66
00:02:20,159 --> 00:02:24,780
colors they are the temperature that it

67
00:02:21,960 --> 00:02:26,670
isn't so forth secondly the problem of

68
00:02:24,780 --> 00:02:27,719
infinite regression where does

69
00:02:26,669 --> 00:02:29,879
observation end

70
00:02:27,719 --> 00:02:31,469
I mean if someone's observing an

71
00:02:29,879 --> 00:02:33,000
experiment what about if something

72
00:02:31,469 --> 00:02:34,289
someone's observing the observer or

73
00:02:33,000 --> 00:02:36,750
where does then this is called infinite

74
00:02:34,289 --> 00:02:38,069
regression I mean if this were true

75
00:02:36,750 --> 00:02:40,050
right now I'm observing you and I'm

76
00:02:38,069 --> 00:02:42,810
collapsing all your quantum waves in a

77
00:02:40,050 --> 00:02:45,450
sense you're getting very small so so

78
00:02:42,810 --> 00:02:48,539
those are two challenges and von neumann

79
00:02:45,449 --> 00:02:50,939
came up with one idea to deal with this

80
00:02:48,539 --> 00:02:52,859
which was to create the idea that

81
00:02:50,939 --> 00:02:54,270
there's a wave collapse which some

82
00:02:52,860 --> 00:02:56,490
people refer to as a disappearing

83
00:02:54,270 --> 00:02:59,719
world's theory because when we take a

84
00:02:56,490 --> 00:03:02,490
quantum measurement we see a particular

85
00:02:59,719 --> 00:03:04,469
measurement from our classical measuring

86

00:03:02,490 --> 00:03:06,780
apparatus but all the other states in

87
00:03:04,469 --> 00:03:07,919
the quantum wave disappear some people

88
00:03:06,780 --> 00:03:12,000
call it don't-ask don't-tell

89
00:03:07,919 --> 00:03:14,009
so where do they go okay so the von

90
00:03:12,000 --> 00:03:16,199
Norman proposed that everything does

91
00:03:14,009 --> 00:03:17,819
evolve at a subatomic level you know

92
00:03:16,199 --> 00:03:19,859
over time from the Schrodinger wave

93
00:03:17,819 --> 00:03:22,229
equation but that the act of measurement

94
00:03:19,860 --> 00:03:24,180
arbitrarily and instantaneously projects

95
00:03:22,229 --> 00:03:25,649
one element onto classical reality is

96
00:03:24,180 --> 00:03:27,510
still very dependent on classical

97
00:03:25,650 --> 00:03:29,370
reality is that your abstract ego

98
00:03:27,509 --> 00:03:32,599
whatever that means is what collapses

99
00:03:29,370 --> 00:03:35,039
the wavefunction Hugh Everett the third

100
00:03:32,599 --> 00:03:36,449

didn't find this very acceptable he

101

00:03:35,039 --> 00:03:38,939
accepted the first axiom

102

00:03:36,449 --> 00:03:41,339
that we find the Schrodinger wave

103

00:03:38,939 --> 00:03:43,109
equation at the microscopic level but he

104

00:03:41,340 --> 00:03:45,060
said that wave collapse is an ad hoc

105

00:03:43,110 --> 00:03:46,410
idea that's more metaphysics and physics

106

00:03:45,060 --> 00:03:47,819
you're just throwing this in to make it

107

00:03:46,409 --> 00:03:49,139
seem to make sense but there's nothing

108

00:03:47,819 --> 00:03:51,180
in physics that tell us there should be

109

00:03:49,139 --> 00:03:55,169
wave collapse so he proposed a universal

110

00:03:51,180 --> 00:03:57,450
wavefunction in which the Schrodinger

111

00:03:55,169 --> 00:03:59,549
equation describes microscopic reality

112

00:03:57,449 --> 00:04:01,649
and macroscopic reality simultaneously

113

00:03:59,550 --> 00:04:05,850
he wrote a dissertation about that which

114

00:04:01,650 --> 00:04:07,349
was later retitled by Bryce to it the

115
00:04:05,849 --> 00:04:08,969
prices and they called it the

116
00:04:07,349 --> 00:04:10,639
many-worlds interpretation but he called

117
00:04:08,969 --> 00:04:13,379
it the universal wavefunction

118
00:04:10,639 --> 00:04:15,779
now very interestingly enough on page

119
00:04:13,379 --> 00:04:17,399
six in a footnote he refers to von

120
00:04:15,780 --> 00:04:19,798
Norman's idea of psychophysical

121
00:04:17,399 --> 00:04:21,689
parallelism which is really the kind of

122
00:04:19,798 --> 00:04:23,629
genesis of the multi worlds idea because

123
00:04:21,689 --> 00:04:25,740
what von neumann told us is that

124
00:04:23,629 --> 00:04:27,689
subjective states are equal

125
00:04:25,740 --> 00:04:29,460
to objective physical states from a

126
00:04:27,689 --> 00:04:32,279
physics point of view subjective

127
00:04:29,459 --> 00:04:34,409
phenomena are equally real to objective

128
00:04:32,279 --> 00:04:36,448
phenomena referred to extra physical

129
00:04:34,410 --> 00:04:38,460
processes whatever people have different

130
00:04:36,449 --> 00:04:40,139
interpretations of what that means but

131
00:04:38,459 --> 00:04:42,299
he kind of created this idea that there

132
00:04:40,139 --> 00:04:43,918
are alternative possibilities so ever it

133
00:04:42,300 --> 00:04:45,300
believed that quantum mechanics should

134
00:04:43,918 --> 00:04:47,370
stand on its own the many-worlds

135
00:04:45,300 --> 00:04:50,970
interpretation without reference to

136
00:04:47,370 --> 00:04:53,038
observer or classical dynamics the

137
00:04:50,970 --> 00:04:55,169
observer isn't a superposition to the

138
00:04:53,038 --> 00:04:56,370
experimenter is in a superposition the

139
00:04:55,168 --> 00:04:59,370
measuring equipment is in a

140
00:04:56,370 --> 00:05:01,560
superposition so all of these are real

141
00:04:59,370 --> 00:05:03,899
realities and the way ever it dealt with

142
00:05:01,560 --> 00:05:05,459
it is said it's not that the system is

143

00:05:03,899 --> 00:05:06,959
affected by the observer it's the

144
00:05:05,459 --> 00:05:09,329
observer hukum becomes affected by the

145
00:05:06,959 --> 00:05:11,668
system all the realities are real that

146
00:05:09,329 --> 00:05:13,859
are scribed by the superposition and in

147
00:05:11,668 --> 00:05:15,990
in this world quantum entanglement is

148
00:05:13,860 --> 00:05:18,270
just correlation and so he basically

149
00:05:15,990 --> 00:05:21,509
tells us that we're constantly splitting

150
00:05:18,269 --> 00:05:23,219
off every nanosecond into different

151
00:05:21,509 --> 00:05:25,620
branches were not aware of the splitting

152
00:05:23,220 --> 00:05:28,650
and we're being pulled into the quantum

153
00:05:25,620 --> 00:05:30,569
wave at every moment in a superposition

154
00:05:28,649 --> 00:05:33,709
so we're ourselves in a superposition

155
00:05:30,569 --> 00:05:36,269
but we only see excuse me for a second a

156
00:05:33,709 --> 00:05:39,418
small sliver of it the observer forms a

157
00:05:36,269 --> 00:05:41,279

trajectory not a line so there's the

158

00:05:39,418 --> 00:05:42,810

classical Copenhagen interpretation and

159

00:05:41,279 --> 00:05:45,598

there's ever an interpretation constant

160

00:05:42,810 --> 00:05:47,639

branching whatever it said that these

161

00:05:45,598 --> 00:05:49,139

branches never interact again so it's

162

00:05:47,639 --> 00:05:51,120

not very satisfying for most of us

163

00:05:49,139 --> 00:05:53,668

looking at these phenomena a newer

164

00:05:51,120 --> 00:05:55,168

version of this and we have to go over

165

00:05:53,668 --> 00:05:58,529

this quickly because of the time is the

166

00:05:55,168 --> 00:06:00,930

many interacting worldview no miw which

167

00:05:58,529 --> 00:06:02,609

says all quantum phenomena are the

168

00:06:00,930 --> 00:06:04,379

outcome of a near infinite number of

169

00:06:02,610 --> 00:06:07,169

interacting parallel realities that

170

00:06:04,379 --> 00:06:09,300

already exists basically this model is

171

00:06:07,168 --> 00:06:09,629

what is quantum mechanics done for you

172
00:06:09,300 --> 00:06:12,930
lately

173
00:06:09,629 --> 00:06:15,269
they basically these people of Hall

174
00:06:12,930 --> 00:06:17,009
Deckard and Wiseman from Australia

175
00:06:15,269 --> 00:06:19,348
basically argue that you we can

176
00:06:17,009 --> 00:06:21,419
reproduce all quantum phenomena from the

177
00:06:19,348 --> 00:06:23,360
interactions of parallel realities the

178
00:06:21,418 --> 00:06:25,529
quantum wave is an epiphenomenon of

179
00:06:23,360 --> 00:06:26,310
interaction between near parallel

180
00:06:25,529 --> 00:06:28,709
realities

181
00:06:26,310 --> 00:06:30,899
I like Everett where these realities are

182
00:06:28,709 --> 00:06:34,138
generated every nanosecond these all

183
00:06:30,899 --> 00:06:36,120
parallel realities are considered to pre

184
00:06:34,139 --> 00:06:37,650
exist from the beginning of time there's

185
00:06:36,120 --> 00:06:40,290
an near infinite number

186
00:06:37,649 --> 00:06:42,359
of them and they're not quite parallel

187
00:06:40,290 --> 00:06:44,370
because they do interact so it's kind of

188
00:06:42,360 --> 00:06:46,319
a combination between bohmian dynamics

189
00:06:44,370 --> 00:06:48,110
except instead of one pilot wave there's

190
00:06:46,319 --> 00:06:50,779
a multi-dimensional pilot wave and

191
00:06:48,110 --> 00:06:54,629
Everett's many-worlds interpretation

192
00:06:50,779 --> 00:06:56,788
parallel realities interact when they're

193
00:06:54,629 --> 00:06:58,978
in similar configuration spaces they

194
00:06:56,788 --> 00:07:00,478
create very small repulsive pressures on

195
00:06:58,978 --> 00:07:04,620
our own reality that gives rise to all

196
00:07:00,478 --> 00:07:05,668
quantum mechanical processes the people

197
00:07:04,620 --> 00:07:08,370
that are researching this have

198
00:07:05,668 --> 00:07:10,109
calculated through simulations that 41

199
00:07:08,370 --> 00:07:11,639
parallel realities per electron are

200

00:07:10,110 --> 00:07:13,830
enough to reproduce many quantum

201
00:07:11,639 --> 00:07:16,319
experiments including double Swit double

202
00:07:13,829 --> 00:07:19,500
slit and quantum tunneling zero-point

203
00:07:16,319 --> 00:07:21,418
energy and this is the simulation of the

204
00:07:19,500 --> 00:07:23,699
double slit experiment purely from

205
00:07:21,418 --> 00:07:25,349
parallel realities alone 41 parallel

206
00:07:23,699 --> 00:07:27,780
realities the reason it doesn't match

207
00:07:25,350 --> 00:07:29,789
exactly is this theorem works in what's

208
00:07:27,779 --> 00:07:31,079
called the continuum limit which means

209
00:07:29,788 --> 00:07:32,639
we don't have an infinite number of

210
00:07:31,079 --> 00:07:34,859
parallel realities in the simulation

211
00:07:32,639 --> 00:07:37,160
here this is just 41 but it looks pretty

212
00:07:34,860 --> 00:07:39,538
close to what you see from double slit

213
00:07:37,160 --> 00:07:41,699
now I just did some quick calculations

214
00:07:39,538 --> 00:07:45,269

and if we're 99% of our body is hydrogen

215

00:07:41,699 --> 00:07:46,978

oxygen carbon we would have 2.3 times

216

00:07:45,269 --> 00:07:50,180

ten to twenty eight electrons in our

217

00:07:46,978 --> 00:07:52,348

body and that means we could be react

218

00:07:50,180 --> 00:07:54,030

interacting with six point two times ten

219

00:07:52,348 --> 00:07:56,550

to the twenty-nine parallel realities

220

00:07:54,029 --> 00:07:58,679

potentially at each moment no I I know

221

00:07:56,550 --> 00:08:00,120

that's way over exaggerated but this is

222

00:07:58,680 --> 00:08:03,180

what this theory is talking about for

223

00:08:00,120 --> 00:08:05,728

real no joke 620 billion billion billion

224

00:08:03,180 --> 00:08:07,139

parallel realities now here's one of the

225

00:08:05,728 --> 00:08:08,279

most interesting statements I mean it's

226

00:08:07,139 --> 00:08:09,900

a von Neumann statement about

227

00:08:08,279 --> 00:08:11,969

psychophysical parallelism is

228

00:08:09,899 --> 00:08:14,098

interesting this is what they say it's

229
00:08:11,970 --> 00:08:16,229
not part of our theory but the idea of

230
00:08:14,098 --> 00:08:19,469
human interactions with other universes

231
00:08:16,228 --> 00:08:20,908
is no longer pure fantasy I mean that

232
00:08:19,470 --> 00:08:22,440
really stopped me when I saw that these

233
00:08:20,908 --> 00:08:24,180
are you know peer-reviewed mainstream

234
00:08:22,439 --> 00:08:26,519
physicists saying that physicists saying

235
00:08:24,180 --> 00:08:28,800
we interact with parallel realities and

236
00:08:26,519 --> 00:08:30,689
I think that this has really big

237
00:08:28,800 --> 00:08:32,158
applications if you think of this type

238
00:08:30,689 --> 00:08:33,809
of phenomena we study because it's

239
00:08:32,158 --> 00:08:36,208
basically saying that all of these types

240
00:08:33,809 --> 00:08:38,399
of phenomena are a result

241
00:08:36,208 --> 00:08:39,989
take your pick and we no time to go

242
00:08:38,399 --> 00:08:42,269
through them here result to bleed

243
00:08:39,990 --> 00:08:44,009
through from parallel realities this is

244
00:08:42,269 --> 00:08:45,360
what they're telling us and I got I

245
00:08:44,009 --> 00:08:47,490
think this theory got a little boast

246
00:08:45,360 --> 00:08:49,259
from Larry boost from Larry disease talk

247
00:08:47,490 --> 00:08:51,089
because basically what they're saying is

248
00:08:49,259 --> 00:08:52,259
similar configuration spaces they

249
00:08:51,089 --> 00:08:54,899
have to be close physically but

250
00:08:52,259 --> 00:08:56,129
similarly configured interact more often

251
00:08:54,899 --> 00:08:58,558
and that's what Larry was telling us

252
00:08:56,129 --> 00:09:00,959
with his study of twins the more that

253
00:08:58,558 --> 00:09:02,188
things are similarly structured the more

254
00:09:00,958 --> 00:09:03,169
great you're going to get this type of

255
00:09:02,188 --> 00:09:07,259
bleeder

256
00:09:03,169 --> 00:09:09,058
and another feature of miw theory is

257

00:09:07,259 --> 00:09:10,860
that non-local effects don't only come

258
00:09:09,058 --> 00:09:12,448
from parallel realities but from high

259
00:09:10,860 --> 00:09:14,990
degrees of correlation what they call

260
00:09:12,448 --> 00:09:17,789
super nonlocality from our own reality

261
00:09:14,990 --> 00:09:21,120
so this might include some PK and some

262
00:09:17,789 --> 00:09:22,980
types of remote viewing so we don't need

263
00:09:21,120 --> 00:09:25,698
parallel realities for non-local effects

264
00:09:22,980 --> 00:09:28,558
they come from both our reality and from

265
00:09:25,698 --> 00:09:29,789
parallel realities now if you like the

266
00:09:28,558 --> 00:09:31,198
idea of this you're going to have to let

267
00:09:29,789 --> 00:09:33,179
go over the paranormal because this

268
00:09:31,198 --> 00:09:34,948
theory is saying that paranormal is

269
00:09:33,179 --> 00:09:36,808
normal in a world of multi-purpose

270
00:09:34,948 --> 00:09:38,669
you're going to get bleed through so you

271
00:09:36,808 --> 00:09:40,139

better get used to it if you don't like

272

00:09:38,669 --> 00:09:41,669

the idea bleed through just find another

273

00:09:40,139 --> 00:09:43,499

multiverse where it doesn't happen so

274

00:09:41,669 --> 00:09:44,938

much this is this is really what they're

275

00:09:43,499 --> 00:09:46,829

saying so basically you're saying the

276

00:09:44,938 --> 00:09:49,708

multiverse is an ultra weak but highly

277

00:09:46,828 --> 00:09:51,568

precise super structure of looks we only

278

00:09:49,708 --> 00:09:53,609

perceive the tile a tiny fraction at any

279

00:09:51,568 --> 00:09:55,259

moment quantum mechanics isn't the

280

00:09:53,610 --> 00:09:56,669

fundamental reality multiverse two

281

00:09:55,259 --> 00:09:58,499

interactions are it's basically saying

282

00:09:56,669 --> 00:10:00,058

that what we have is that we see the

283

00:09:58,499 --> 00:10:02,129

Internet that's a toy compared to this

284

00:10:00,058 --> 00:10:04,169

huge interaction of multi versus which

285

00:10:02,129 --> 00:10:06,120

produces what we see would seem to be

286
00:10:04,169 --> 00:10:07,919
quantum place and one cool thing that

287
00:10:06,120 --> 00:10:10,528
drops out of this seems to me is perhaps

288
00:10:07,919 --> 00:10:12,948
dark energy I didn't get a picture of it

289
00:10:10,528 --> 00:10:15,208
because no one's seen it yet I can't but

290
00:10:12,948 --> 00:10:18,269
dark energy we're told as repulsive

291
00:10:15,208 --> 00:10:21,328
forces this theory works from repulsive

292
00:10:18,269 --> 00:10:23,698
forces to and maybe human creativity

293
00:10:21,328 --> 00:10:25,258
because perhaps geniuses and people that

294
00:10:23,698 --> 00:10:27,208
come up with really creative ideas are

295
00:10:25,259 --> 00:10:28,678
simply perceiving parallel realities

296
00:10:27,208 --> 00:10:30,568
that are very close to us but we

297
00:10:28,678 --> 00:10:33,299
normally don't perceive you could work

298
00:10:30,568 --> 00:10:35,878
with that idea imagination can be seen

299
00:10:33,299 --> 00:10:38,399
as a real parallel reality consciousness

300
00:10:35,879 --> 00:10:41,909
it's spread out now I have to thank rust

301
00:10:38,399 --> 00:10:43,470
art in a sense for this because at the

302
00:10:41,909 --> 00:10:45,539
urban meeting a couple years ago he said

303
00:10:43,470 --> 00:10:46,829
quantum mechanics remote viewing is

304
00:10:45,539 --> 00:10:48,539
nothing it was quantum mechanics it

305
00:10:46,828 --> 00:10:50,609
exists because you're a very large beam

306
00:10:48,539 --> 00:10:52,318
that spans space and time and this is

307
00:10:50,610 --> 00:10:53,610
kind of saying something similar except

308
00:10:52,318 --> 00:10:55,558
you're lots of little beans over many

309
00:10:53,610 --> 00:10:57,688
parallel realities so basically miw

310
00:10:55,558 --> 00:10:58,289
theory is the Roman Inquisition is worse

311
00:10:57,688 --> 00:11:00,058
a nightmare

312
00:10:58,289 --> 00:11:02,278
I mean this is saying things are

313
00:11:00,058 --> 00:11:03,509
infinite and we interact with them not

314

00:11:02,278 --> 00:11:03,850
what they wanted to hear back then at

315
00:11:03,509 --> 00:11:05,110
least

316
00:11:03,850 --> 00:11:07,540
we don't get burned at the stake for

317
00:11:05,110 --> 00:11:08,889
saying it and weirdly enough it's kind

318
00:11:07,539 --> 00:11:10,198
of consistent with hidden variables

319
00:11:08,889 --> 00:11:13,778
which Einstein talked about the

320
00:11:10,198 --> 00:11:15,939
multiverses and more because it's saying

321
00:11:13,778 --> 00:11:18,129
that actually it's classical is it's not

322
00:11:15,940 --> 00:11:21,009
it's not hidden and even ever in

323
00:11:18,129 --> 00:11:23,289
Australia of relative states so

324
00:11:21,009 --> 00:11:25,149
basically the conclusion is if you

325
00:11:23,289 --> 00:11:27,549
believe this model and reality leaks and

326
00:11:25,149 --> 00:11:28,929
that's the type of reality we live in so

327
00:11:27,549 --> 00:11:36,669
I think it's worthy of consideration

328
00:11:28,929 --> 00:11:44,919

okay thank you we have just a few

329

00:11:36,669 --> 00:11:51,969
minutes yet legends well don't everybody

330

00:11:44,919 --> 00:11:54,698
come roaring up here at once Oh a very

331

00:11:51,970 --> 00:11:58,389
cool idea yeah you really got the

332

00:11:54,698 --> 00:12:00,219
calculation of 10 to the 23rd what does

333

00:11:58,389 --> 00:12:02,049
that refer you to exactly parallel

334

00:12:00,220 --> 00:12:03,910
realities that you'd be interacting to

335

00:12:02,049 --> 00:12:04,990
just counting your electrons because

336

00:12:03,909 --> 00:12:07,269
this is kind of a physically-based

337

00:12:04,990 --> 00:12:08,289
pressure model based on particle you see

338

00:12:07,269 --> 00:12:10,360
those are basically the number of

339

00:12:08,289 --> 00:12:12,338
electrons in the human body based on

340

00:12:10,360 --> 00:12:14,259
their calculations of how many parallel

341

00:12:12,339 --> 00:12:16,000
realities per electron you need to

342

00:12:14,259 --> 00:12:18,068
recreate what we call quantum mechanics

343

00:12:16,000 --> 00:12:20,049

another question is that's the number

344

00:12:18,068 --> 00:12:22,659

for a static situation no this is

345

00:12:20,049 --> 00:12:26,559

dynamic don't you have huge numbers of a

346

00:12:22,659 --> 00:12:27,909

new entity a new possibility that's

347

00:12:26,559 --> 00:12:28,838

emerging out of we're up somewhere and

348

00:12:27,909 --> 00:12:30,938

they never they're gonna grow us here

349

00:12:28,839 --> 00:12:32,560

enormous Lee that's my rock and they're

350

00:12:30,938 --> 00:12:34,389

right or wrong about that no you're

351

00:12:32,559 --> 00:12:35,828

right it this is just you know it's just

352

00:12:34,389 --> 00:12:37,899

kind of a model and that's just a

353

00:12:35,828 --> 00:12:39,698

minimum a number and obviously we're not

354

00:12:37,899 --> 00:12:41,049

interacting with every possible parallel

355

00:12:39,698 --> 00:12:42,879

reality because it doesn't anything to

356

00:12:41,049 --> 00:12:44,559

do with you so if you have to look at

357
00:12:42,879 --> 00:12:45,938
the number you were interacting with you

358
00:12:44,559 --> 00:12:47,289
have to scale it down a bit but that's

359
00:12:45,938 --> 00:12:50,250
just looking at electrons that's out of

360
00:12:47,289 --> 00:12:52,688
their model you know is working someone

361
00:12:50,250 --> 00:12:55,419
with the ability to make a quantum

362
00:12:52,688 --> 00:12:57,278
computer or if it wasn't possible to

363
00:12:55,419 --> 00:12:58,809
make it depend in some way on this or

364
00:12:57,278 --> 00:13:02,610
would you still be able to make a

365
00:12:58,809 --> 00:13:04,919
quantum computer in a leaky reality

366
00:13:02,610 --> 00:13:07,560
that's a really good question Winston I

367
00:13:04,919 --> 00:13:10,469
don't know the answer to it I mean it

368
00:13:07,559 --> 00:13:14,789
would suggest that you would have to be

369
00:13:10,470 --> 00:13:17,970
correlated with other objects and things

370
00:13:14,789 --> 00:13:19,169
in the space that you're working with

371

00:13:17,970 --> 00:13:21,240
not the physical space by the

372
00:13:19,169 --> 00:13:22,889
configuration space but this model says

373
00:13:21,240 --> 00:13:24,750
that quantum mechanics isn't the

374
00:13:22,889 --> 00:13:26,309
fundamental reality that's it's just an

375
00:13:24,750 --> 00:13:28,019
interference pattern it's an

376
00:13:26,309 --> 00:13:30,299
interference pattern between like you

377
00:13:28,019 --> 00:13:33,120
have strings and you're the harmonic in

378
00:13:30,299 --> 00:13:34,609
between it and that it's there but it's

379
00:13:33,120 --> 00:13:36,810
coming from something else deeper yeah

380
00:13:34,610 --> 00:13:39,149
so I'm gonna sort of dumb down the

381
00:13:36,809 --> 00:13:41,338
conversation little I apologize not

382
00:13:39,149 --> 00:13:44,278
being able to speak in your terms but I

383
00:13:41,339 --> 00:13:46,110
know that one visual metaphor that's

384
00:13:44,278 --> 00:13:47,278
really helped me conceptualize I feel

385
00:13:46,110 --> 00:13:49,740

like what you're saying although I could

386

00:13:47,278 --> 00:13:52,828

be totally wrong and I it's not my own

387

00:13:49,740 --> 00:13:57,720

idea it was it was someone else's and

388

00:13:52,828 --> 00:14:00,958

but anyway is this idea that it's like a

389

00:13:57,720 --> 00:14:03,480

bunch of film like of a movie that's

390

00:14:00,958 --> 00:14:05,849

physical and like exists somewhere and

391

00:14:03,480 --> 00:14:09,120

every decision you make you make a new

392

00:14:05,850 --> 00:14:11,699

film and that all of that already exists

393

00:14:09,120 --> 00:14:14,009

for all consciousness decisions and our

394

00:14:11,698 --> 00:14:17,250

consciousness is just like a speck that

395

00:14:14,009 --> 00:14:18,870

linearly walks along that film and so

396

00:14:17,250 --> 00:14:20,940

where that speck chooses to go is our

397

00:14:18,870 --> 00:14:22,230

freewill the destiny is the fact that

398

00:14:20,940 --> 00:14:24,000

all those films have already been

399

00:14:22,230 --> 00:14:26,159

created so I don't know what helps them

400

00:14:24,000 --> 00:14:29,190

that that is it you got it yes thank you

401

00:14:26,159 --> 00:14:32,089

thank you okay

402

00:14:29,190 --> 00:14:35,179

we're now out of time

403

00:14:32,090 --> 00:14:35,179

[Music]

404

00:14:35,529 --> 00:14:39,759

[Applause]