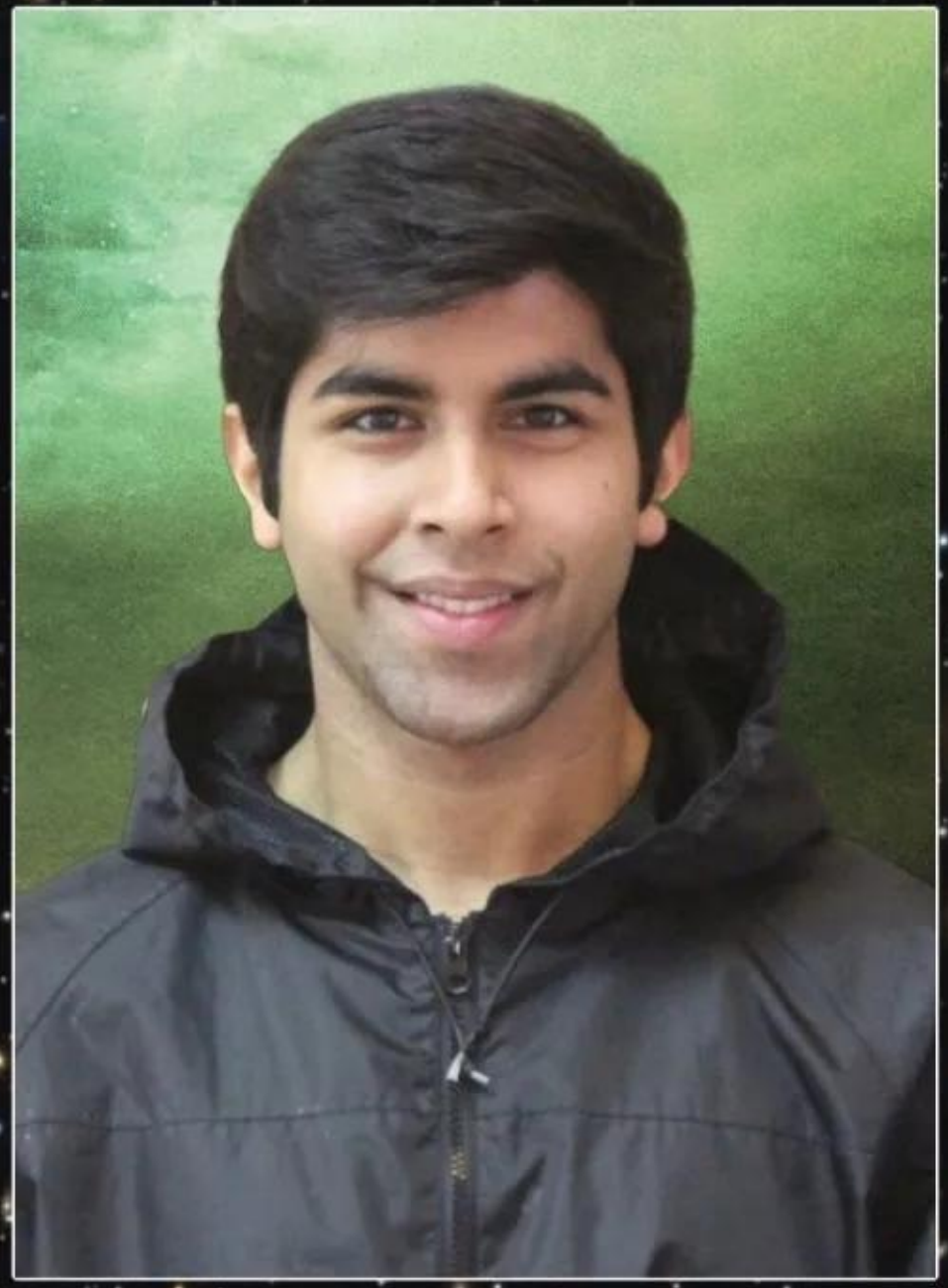

DEEP PRASAD

DISCUSSES METAMATERIALS, AI DEEP FAKES AND WILL ET TECHNOLOGY BE THE NEXT SILICON VALLEY-STYLE HYPE?

UFONN SUNDAY

1
00:01:17,230 --> 00:00:14,460
[Music]

2
00:01:23,209 --> 00:01:20,450
and good evening from Philadelphia Frank

3
00:01:25,399 --> 00:01:23,219
here with another episode of UFO news

4
00:01:27,740 --> 00:01:25,409
network Sunday tonight it's on a

5
00:01:30,109 --> 00:01:27,750
Wednesday as far as I can tell looking

6
00:01:31,700 --> 00:01:30,119
at the agenda we've got no controversy

7
00:01:34,279 --> 00:01:31,710
coming up tonight we've just got to get

8
00:01:36,020 --> 00:01:34,289
a brilliant guest a great guest who's

9
00:01:39,319 --> 00:01:36,030
never been on with us before so let me

10
00:01:41,990 --> 00:01:39,329
bring in my co-host chant Hannah to keep

11
00:01:45,109 --> 00:01:42,000
everything calm tonight and introduce

12
00:01:48,830 --> 00:01:45,119
our guest will you please yes because

13
00:01:51,620 --> 00:01:48,840

I'm not being things calm right your

14
00:01:53,990 --> 00:01:51,630
specialty exactly I specialize in that

15
00:01:56,149 --> 00:01:54,000
yes we do actually have a very brilliant

16
00:01:58,520 --> 00:01:56,159
person with us tonight he's one of the

17
00:02:00,800 --> 00:01:58,530
smartest people I have ever met in my

18
00:02:03,919 --> 00:02:00,810
entire life I have a deep respect for

19
00:02:05,779 --> 00:02:03,929
him and his name is deep Prasad is

20
00:02:07,760 --> 00:02:05,789
working with the world's first quantum

21
00:02:09,559 --> 00:02:07,770
computers in order to help build the

22
00:02:11,449 --> 00:02:09,569
infrastructure that will support the

23
00:02:13,490 --> 00:02:11,459
next decades worth of quantum

24
00:02:15,170 --> 00:02:13,500
technologies his goal is to save

25
00:02:17,660 --> 00:02:15,180
humanity hundreds of billions of

26
00:02:19,300 --> 00:02:17,670
research hours in developing the next

27
00:02:21,830 --> 00:02:19,310
generation of photovoltaics

28
00:02:24,379 --> 00:02:21,840
superconductors and meta materials in

29
00:02:25,970 --> 00:02:24,389
his spare time he advises several

30
00:02:28,460 --> 00:02:25,980
blockchain startups focused on

31
00:02:31,190 --> 00:02:28,470
healthcare applications deep was named

32
00:02:33,920 --> 00:02:31,200
one of Toronto's top 20 under 20 and

33
00:02:36,170 --> 00:02:33,930
2015 he has given several talks on the

34
00:02:37,849 --> 00:02:36,180
intersection of AI blockchain and

35
00:02:41,690 --> 00:02:37,859
healthcare including at the blockchain

36
00:02:45,860 --> 00:02:41,700
futures conference 2018 welcome deep how

37
00:02:49,819 --> 00:02:45,870
are you doing I think you have a chance

38
00:02:51,500 --> 00:02:49,829

I'm good it's so wonderful to have you

39
00:02:56,110 --> 00:02:51,510
on the show how have you been doing

40
00:02:59,059 --> 00:02:56,120
today everything going well yesterday I

41
00:03:01,550 --> 00:02:59,069
got everything I wanted to and I'm

42
00:03:04,819 --> 00:03:01,560
looking forward to in conversation with

43
00:03:06,140 --> 00:03:04,829
you and Frank so we're gonna do yeah

44
00:03:09,289 --> 00:03:06,150
we'll do our best

45
00:03:12,319 --> 00:03:09,299
now I had a question for you and that is

46
00:03:14,990 --> 00:03:12,329
you have talked a little bit about et

47
00:03:18,229 --> 00:03:15,000
technology and you had a hapa a

48
00:03:20,140 --> 00:03:18,239
hypothesis that et technology will be

49
00:03:23,060 --> 00:03:20,150
the next Silicon Valley hype after

50
00:03:25,340 --> 00:03:23,070
blockchain artificial intelligence dies

51
00:03:27,409 --> 00:03:25,350
down and if the mainstream continues to

52
00:03:27,740 --> 00:03:27,419
cover the UAP issue do you want to take

53
00:03:31,610 --> 00:03:27,750
it from

54
00:03:35,000 --> 00:03:31,620
they're sure so yeah like I said as long

55
00:03:37,580 --> 00:03:35,010
as the mainstream continues to take the

56
00:03:39,110 --> 00:03:37,590
UAP issue in a serious matter and they

57
00:03:42,260 --> 00:03:39,120
start disseminating more useful

58
00:03:44,540 --> 00:03:42,270
information about let's say the physical

59
00:03:47,360 --> 00:03:44,550
properties of some of these UAP that are

60
00:03:50,420 --> 00:03:47,370
verified for example lewis Elizondo has

61
00:03:53,449 --> 00:03:50,430
really good start with that i like the

62
00:03:55,520 --> 00:03:53,459
five observables that he talks about but

63
00:03:57,230 --> 00:03:55,530

then i think that we need to go one step

64
00:03:59,660 --> 00:03:57,240
further and we need to learn more and

65
00:04:01,580 --> 00:03:59,670
more about for example say what some of

66
00:04:03,830 --> 00:04:01,590
the recovered meta materials might do or

67
00:04:06,199 --> 00:04:03,840
what some of the met materials from

68
00:04:07,460 --> 00:04:06,209
these crash crafts so they exist that

69
00:04:09,560 --> 00:04:07,470
kind of knowledge if that were to be

70
00:04:11,510 --> 00:04:09,570
disseminated would go a long way for

71
00:04:15,020 --> 00:04:11,520
science or technology and I can totally

72
00:04:16,789 --> 00:04:15,030
see how you know startups in Silicon

73
00:04:18,380 --> 00:04:16,799
Valley would be racing to figure out how

74
00:04:23,720 --> 00:04:18,390
these technologies work it would

75
00:04:25,670 --> 00:04:23,730
definitely be a new sort of hype that we

76
00:04:28,340 --> 00:04:25,680
would hear about a lot coming out of the

77
00:04:31,550 --> 00:04:28,350
belly now I know you're not an economist

78
00:04:33,560 --> 00:04:31,560
but if all that were to transpire how

79
00:04:36,260 --> 00:04:33,570
would that impact the economy worldwide

80
00:04:38,840 --> 00:04:36,270
well I question if we will even have

81
00:04:41,690 --> 00:04:38,850
what we consider an economy because we

82
00:04:44,650 --> 00:04:41,700
base off of our base our economy off the

83
00:04:47,030 --> 00:04:44,660
idea that we have a resource competition

84
00:04:48,650 --> 00:04:47,040
sort of society where everybody's

85
00:04:50,960 --> 00:04:48,660
compete with each other and then that

86
00:04:52,610 --> 00:04:50,970
drives value and then we value food and

87
00:04:55,010 --> 00:04:52,620
houses and blah blah blah but what

88
00:04:57,440 --> 00:04:55,020

happens if you suddenly solve all those

89
00:04:59,900 --> 00:04:57,450
material issues and know it no longer

90
00:05:01,670 --> 00:04:59,910
makes sense to have a currency system

91
00:05:04,520 --> 00:05:01,680
where somebody has more than the other

92
00:05:06,770 --> 00:05:04,530
it might not even be a thing so I'm look

93
00:05:08,390 --> 00:05:06,780
what I'm thinking is that once this

94
00:05:11,450 --> 00:05:08,400
technology is properly implemented we

95
00:05:13,100 --> 00:05:11,460
might move forward beyond economy and

96
00:05:15,740 --> 00:05:13,110
politics and there might be something

97
00:05:17,870 --> 00:05:15,750
more new and interesting it'll be like

98
00:05:19,730 --> 00:05:17,880
an evolution of what we currently know

99
00:05:21,770 --> 00:05:19,740
as the current economic system or the

100
00:05:24,860 --> 00:05:21,780
idea of an economy well that's

101
00:05:26,840 --> 00:05:24,870
fascinating Frank I think there was a

102
00:05:28,550 --> 00:05:26,850
question that you may want to have

103
00:05:32,330 --> 00:05:28,560
wanted to ask regarding metamaterials

104
00:05:34,460 --> 00:05:32,340
well yeah basically the metamaterials

105
00:05:36,380 --> 00:05:34,470
has become a bit of a thing in the UFO

106
00:05:38,089 --> 00:05:36,390
field a bit more of a thing it's always

107
00:05:40,640 --> 00:05:38,099
been interesting to me going back to

108
00:05:41,510 --> 00:05:40,650
talk of Roswell crash debris from way

109
00:05:43,280 --> 00:05:41,520
back when

110
00:05:45,140 --> 00:05:43,290
interesting properties that it had

111
00:05:48,020 --> 00:05:45,150
shape-shifting properties things like

112
00:05:50,689 --> 00:05:48,030
that and Elizondo it does have a few

113
00:05:53,920 --> 00:05:50,699

pieces have you been looking at more

114
00:05:56,840 --> 00:05:53,930
detail in terms of the pieces that are

115
00:05:59,960 --> 00:05:56,850
possibly in their hands you know the

116
00:06:02,749 --> 00:05:59,970
makeup of the alloys I've seen bismuth

117
00:06:04,909 --> 00:06:02,759
that being mentioned a lot titanium a

118
00:06:07,400 --> 00:06:04,919
particular favorite of mine magnesium

119
00:06:08,810 --> 00:06:07,410
are you taking a close look in that can

120
00:06:10,760 --> 00:06:08,820
you give the folks at home a little bit

121
00:06:13,249 --> 00:06:10,770
of an idea what some of the properties

122
00:06:17,480 --> 00:06:13,259
from these metals are that could be made

123
00:06:20,540 --> 00:06:17,490
up into an advanced alloy yeah that's a

124
00:06:23,240 --> 00:06:20,550
great question so one material that I've

125
00:06:26,180 --> 00:06:23,250
taken a close close look at through

126
00:06:30,409 --> 00:06:26,190
various online resources such as Linda

127
00:06:32,450 --> 00:06:30,419
Moulton Howes YouTube videos and some of

128
00:06:36,379 --> 00:06:32,460
the reports that are out there referring

129
00:06:37,790 --> 00:06:36,389
to research papers by scientists who did

130
00:06:38,600 --> 00:06:37,800
their own experiments on the

131
00:06:40,879 --> 00:06:38,610
metamaterial

132
00:06:42,320 --> 00:06:40,889
the problem is that that paper and I'll

133
00:06:47,450 --> 00:06:42,330
get to it in a second

134
00:06:49,700 --> 00:06:47,460
does not exist on the web in any useful

135
00:06:51,110 --> 00:06:49,710
shape or form there are references to it

136
00:06:54,230 --> 00:06:51,120
it's as if it was wiped out of the

137
00:06:57,050 --> 00:06:54,240
Internet which is interesting but that

138
00:06:57,770 --> 00:06:57,060

being said getting deep do you happen to

139
00:07:01,580 --> 00:06:57,780
know who wrote it

140
00:07:04,070 --> 00:07:01,590
oh yeah his name was WC lovingood okay

141
00:07:06,200 --> 00:07:04,080
doctor let's WC Levengood yeah year was

142
00:07:08,810 --> 00:07:06,210
that published yeah give me a ballpark

143
00:07:10,339 --> 00:07:08,820
off the top of your head I'll have to

144
00:07:15,890 --> 00:07:10,349
get back to you but I think somewhere

145
00:07:18,350 --> 00:07:15,900
the 90s okay okay yeah so yeah that

146
00:07:20,990 --> 00:07:18,360
being said so going back to the

147
00:07:22,969 --> 00:07:21,000
properties see now I'm only going to

148
00:07:25,129 --> 00:07:22,979
talk about the business magnesium zinc

149
00:07:26,920 --> 00:07:25,139
alloy specifically because there's tons

150
00:07:30,080 --> 00:07:26,930
of stuff out there there's a lot of

151
00:07:31,700 --> 00:07:30,090
right I suppose that's one of the many

152
00:07:34,550 --> 00:07:31,710
materials that's made the circuits for a

153
00:07:37,370 --> 00:07:34,560
long time and is probably riddled in

154
00:07:38,990 --> 00:07:37,380
loss and controversy so here's my take

155
00:07:40,250 --> 00:07:39,000
on it based on what I've seen again

156
00:07:44,120 --> 00:07:40,260
clearly on the Internet

157
00:07:45,469 --> 00:07:44,130
so there's an interesting property I

158
00:07:47,270 --> 00:07:45,479
think I don't know if you're familiar

159
00:07:50,300 --> 00:07:47,280
with the experiment that Travis Taylor

160
00:07:52,279 --> 00:07:50,310
did dr. Travis Taylor I'm aware of who

161
00:07:55,290 --> 00:07:52,289
he is but not specifically about what

162
00:08:00,869 --> 00:07:58,020
so the experiment that he does and the

163
00:08:02,749 --> 00:08:00,879

videos out there so imagine an

164
00:08:05,580 --> 00:08:02,759
electrostatic field generator and it's

165
00:08:09,149 --> 00:08:05,590
generating a electric static electric

166
00:08:11,309 --> 00:08:09,159
field of 500,000 volts and on top of

167
00:08:12,779 --> 00:08:11,319
that same to it you can say whatever is

168
00:08:14,399 --> 00:08:12,789
on top of the plastic cap will be

169
00:08:17,070 --> 00:08:14,409
insulated from the electric field right

170
00:08:19,020 --> 00:08:17,080
so okay this sort of this is this is a

171
00:08:21,059 --> 00:08:19,030
basis of the experiment now we have our

172
00:08:23,189 --> 00:08:21,069
two metals we have one metal alloy which

173
00:08:24,390 --> 00:08:23,199
is just aluminium it's boring we know

174
00:08:27,990 --> 00:08:24,400
that it's there's nothing interesting

175
00:08:29,850 --> 00:08:28,000
about it then there's the actual bismuth

176
00:08:30,960 --> 00:08:29,860
magnesium zinc alloy that we're

177
00:08:33,630 --> 00:08:30,970
interested in

178
00:08:36,839 --> 00:08:33,640
so the aluminium is the control now and

179
00:08:41,579 --> 00:08:36,849
then this is what Tom tried to explain

180
00:08:48,870 --> 00:08:41,589
back in Joe Rogan's do a better job and

181
00:08:50,370 --> 00:08:48,880
not swear as much okay so so yeah so the

182
00:08:52,440 --> 00:08:50,380
final component of this entire

183
00:08:54,240 --> 00:08:52,450
experiment is we have a radio generator

184
00:08:56,660 --> 00:08:54,250
now this radio can be tuned to

185
00:09:00,389 --> 00:08:56,670
generating waves from anywhere from 0.5

186
00:09:01,949 --> 00:09:00,399
terahertz up to 3 terahertz this is

187
00:09:03,510 --> 00:09:01,959
where the experiment can go up to you

188
00:09:06,740 --> 00:09:03,520

now they were only able to produce

189
00:09:08,970 --> 00:09:06,750
enough power to produce half a terahertz

190
00:09:10,530 --> 00:09:08,980
at the time I don't know what happened

191
00:09:13,019 --> 00:09:10,540
after because this for 20 years ago I'm

192
00:09:15,269 --> 00:09:13,029
sure they got what they needed but they

193
00:09:18,870 --> 00:09:15,279
needed a 1/3 her it's generator back

194
00:09:20,460 --> 00:09:18,880
then so that problem was probably so now

195
00:09:23,100 --> 00:09:20,470
that being said in this experiment you

196
00:09:24,900 --> 00:09:23,110
have this half terahertz generator radio

197
00:09:27,030 --> 00:09:24,910
signal and it's like imagine you're

198
00:09:29,310 --> 00:09:27,040
turning on a very powerful TV remote it

199
00:09:30,870 --> 00:09:29,320
shouldn't physically move anything right

200
00:09:33,329 --> 00:09:30,880
that's the whole point of this none of

201
00:09:35,579 --> 00:09:33,339
nothing that we've done so far should in

202
00:09:38,430 --> 00:09:35,589
any way shape or form move the metals

203
00:09:40,680 --> 00:09:38,440
that we're dealing with because these

204
00:09:43,550 --> 00:09:40,690
metal alloys are conductive by nature

205
00:09:46,829 --> 00:09:43,560
and so in the electric static field

206
00:09:49,440 --> 00:09:46,839
there's no charge buildup on the surface

207
00:09:51,960 --> 00:09:49,450
for the field to repel it against right

208
00:09:53,610 --> 00:09:51,970
and then the radio signals aren't

209
00:09:57,150 --> 00:09:53,620
providing enough energy for it to move

210
00:09:59,370 --> 00:09:57,160
so when we do everything that I talked

211
00:10:02,040 --> 00:09:59,380
about and we put the aluminum alloy

212
00:10:03,600 --> 00:10:02,050
first on top of the plastic cap what

213
00:10:06,870 --> 00:10:03,610

happens and you turn the radio on what

214
00:10:07,680 --> 00:10:06,880
happens is nothing nothing at all like

215
00:10:09,690 --> 00:10:07,690
we predicted

216
00:10:12,510 --> 00:10:09,700
there's nothing however with the

217
00:10:15,210 --> 00:10:12,520
business maybe some alloy if you put it

218
00:10:16,800 --> 00:10:15,220
on top of the plastic cap and you do the

219
00:10:20,180 --> 00:10:16,810
same exact experiment then you turn on

220
00:10:22,020 --> 00:10:20,190
that half terahertz frequency generator

221
00:10:24,480 --> 00:10:22,030
something very interesting and this is

222
00:10:26,550 --> 00:10:24,490
on videos out there right happens which

223
00:10:29,010 --> 00:10:26,560
is this thing starts vibrating and it

224
00:10:31,650 --> 00:10:29,020
starts opposing the signal of their

225
00:10:34,260 --> 00:10:31,660
origin signal and then it moves up it

226
00:10:36,990 --> 00:10:34,270
becomes essentially a lifting body it

227
00:10:40,680 --> 00:10:37,000
flips off the the cap which is

228
00:10:42,780 --> 00:10:40,690
impossible because regardless of how you

229
00:10:44,730 --> 00:10:42,790
look at it if you draw the free if you

230
00:10:46,830 --> 00:10:44,740
drew the free body diagram of the forces

231
00:10:48,330 --> 00:10:46,840
acting on that meta material there

232
00:10:51,480 --> 00:10:48,340
aren't enough energy there aren't enough

233
00:10:53,790 --> 00:10:51,490
forces to get it off that cap to even

234
00:10:56,430 --> 00:10:53,800
move it a little bit so now that's a

235
00:10:58,680 --> 00:10:56,440
curious property and that's one property

236
00:11:00,030 --> 00:10:58,690
I can talk about more in depth another

237
00:11:02,460 --> 00:11:00,040
one is something else that's also

238
00:11:05,190 --> 00:11:02,470

included in this video that she that's

239
00:11:07,830 --> 00:11:05,200
out there and it goes into electrolysis

240
00:11:09,570 --> 00:11:07,840
are you familiar with electrolysis I am

241
00:11:14,850 --> 00:11:09,580
NOT super for you talking about hair

242
00:11:18,000 --> 00:11:14,860
removal that kind of thing electrolysis

243
00:11:20,730 --> 00:11:18,010
is the process of removing hydrogen from

244
00:11:23,190 --> 00:11:20,740
water so okay you use electricity yeah

245
00:11:25,470 --> 00:11:23,200
so cuz here's the thing right like if we

246
00:11:28,200 --> 00:11:25,480
could use hydrogen if we could hydrogen

247
00:11:31,440 --> 00:11:28,210
is the most energy dense few element we

248
00:11:34,080 --> 00:11:31,450
have as a fuel source so if we could use

249
00:11:35,760 --> 00:11:34,090
it like properly and harness as much of

250
00:11:37,530 --> 00:11:35,770
it as we wanted we could use it to

251
00:11:40,350 --> 00:11:37,540
replace batteries within a day it would

252
00:11:40,950 --> 00:11:40,360
literally solve our energy problems no

253
00:11:45,450 --> 00:11:40,960
problem

254
00:11:47,070 --> 00:11:45,460
electrolysis the amount of energy you

255
00:11:49,020 --> 00:11:47,080
put into the process versus the amount

256
00:11:50,940 --> 00:11:49,030
of energy you get out from the hydrogen

257
00:11:53,190 --> 00:11:50,950
just isn't enough when you scale it at

258
00:11:55,230 --> 00:11:53,200
an industrial level and that's why

259
00:11:57,600 --> 00:11:55,240
people like Elon Musk sort of roast

260
00:11:59,760 --> 00:11:57,610
hydrogen cells right he says that'll

261
00:12:02,190 --> 00:11:59,770
never happen because hydrogen is so hard

262
00:12:03,390 --> 00:12:02,200
to attain now with all that in mind

263
00:12:05,730 --> 00:12:03,400

let's go back to this business

264
00:12:07,079 --> 00:12:05,740
metamaterial what and this is why I was

265
00:12:10,590 --> 00:12:07,089
looking for this paper by Levengood

266
00:12:12,660 --> 00:12:10,600
because essentially what Linda Howe did

267
00:12:14,460 --> 00:12:12,670
with Levengood was she gave it to eleven

268
00:12:16,740 --> 00:12:14,470
good and Levitt good put it inside a

269
00:12:19,829 --> 00:12:16,750
beaker of water he was interested in

270
00:12:21,720 --> 00:12:19,839
water a lot that seems and so he puts in

271
00:12:25,740 --> 00:12:21,730
water and immediately the water the

272
00:12:27,240 --> 00:12:25,750
water starts bubbling and he checks to

273
00:12:29,220 --> 00:12:27,250
see what's coming outside of the surface

274
00:12:31,800 --> 00:12:29,230
of the water and it turns out that is

275
00:12:34,430 --> 00:12:31,810
hydrogen the it's h2 that's being

276
00:12:38,400 --> 00:12:34,440
extracted from the water and it's being

277
00:12:40,050 --> 00:12:38,410
ejected added at a continuous stream so

278
00:12:42,199 --> 00:12:40,060
apparently to send it for several days

279
00:12:45,780 --> 00:12:42,209
it was able to do it for several weeks

280
00:12:48,269 --> 00:12:45,790
and to me that's profound because it's

281
00:12:50,699 --> 00:12:48,279
performing electrolysis or at least

282
00:12:52,710 --> 00:12:50,709
extracting the hydrogen somehow with no

283
00:12:54,600 --> 00:12:52,720
external energy cost whatsoever it might

284
00:12:56,490 --> 00:12:54,610
be drawing that from the environment or

285
00:12:58,110 --> 00:12:56,500
whatever but that alone would solve all

286
00:12:59,850 --> 00:12:58,120
of our energy problems if we could

287
00:13:01,680 --> 00:12:59,860
figure that out it would also let you

288
00:13:03,509 --> 00:13:01,690

disseminate right so that's an

289
00:13:04,889 --> 00:13:03,519
extraordinary property the fact that it

290
00:13:05,550 --> 00:13:04,899
can lift itself when it doesn't have

291
00:13:07,769 --> 00:13:05,560
enough energy

292
00:13:09,780 --> 00:13:07,779
another extra Dory property and of

293
00:13:11,370 --> 00:13:09,790
course the isotopes that's probably the

294
00:13:13,079 --> 00:13:11,380
one that I don't know why but someone

295
00:13:15,269 --> 00:13:13,089
most commonly talked about I suppose

296
00:13:17,069 --> 00:13:15,279
it's the thing that Jack Foley and the

297
00:13:18,629 --> 00:13:17,079
other guys can get in the least amount

298
00:13:21,810 --> 00:13:18,639
of trouble talking about it's the least

299
00:13:23,100 --> 00:13:21,820
sexy but it's also the most it's also

300
00:13:25,230 --> 00:13:23,110
pretty out there you know what I mean

301
00:13:27,000 --> 00:13:25,240
it's it's fascinating in itself and

302
00:13:28,949 --> 00:13:27,010
really good if we're gonna talk about

303
00:13:30,990 --> 00:13:28,959
evidence of whether something comes from

304
00:13:32,990 --> 00:13:31,000
here they're isotopes is definitely

305
00:13:37,319 --> 00:13:33,000
ground zero for this kind of stuff okay

306
00:13:39,660 --> 00:13:37,329
wanted to mention who William C

307
00:13:42,420 --> 00:13:39,670
Levengood is that is correct right deep

308
00:13:45,019 --> 00:13:42,430
yes that's right okay yeah he was also

309
00:13:47,400 --> 00:13:45,029
known as lefty Levengood a pioneering

310
00:13:49,650 --> 00:13:47,410
biophysicist and longtime resident of

311
00:13:53,400 --> 00:13:49,660
Grass Lake Michigan is where he lived

312
00:13:57,240 --> 00:13:53,410
and he died at the age of 88 so he was

313
00:13:58,889 --> 00:13:57,250

born in 1925 knee died in 2013 also

314
00:14:01,680 --> 00:13:58,899
wanted to mention something interesting

315
00:14:03,870 --> 00:14:01,690
and that is the five observables that

316
00:14:06,720 --> 00:14:03,880
you mentioned that Lou Elizondo had

317
00:14:09,809 --> 00:14:06,730
talked about animalists lista those off

318
00:14:12,000 --> 00:14:09,819
the first one is anti-gravity lift the

319
00:14:15,090 --> 00:14:12,010
second is sudden and instantaneous

320
00:14:17,280 --> 00:14:15,100
acceleration the third hypersonic

321
00:14:20,490 --> 00:14:17,290
hypersonic velocities without signatures

322
00:14:23,340 --> 00:14:20,500
fourth low observability or cloaking

323
00:14:28,350 --> 00:14:23,350
fifth trance medium travel those are

324
00:14:31,650 --> 00:14:28,360
quite a list deep now I wanted to

325
00:14:34,439 --> 00:14:31,660
actually ask you a question here and

326
00:14:35,610 --> 00:14:34,449
that is we're talking about blockchain

327
00:14:37,080 --> 00:14:35,620
and AI can

328
00:14:38,760 --> 00:14:37,090
I say what I thought you were gonna ask

329
00:14:40,680 --> 00:14:38,770
another materials question I want to go

330
00:14:43,470 --> 00:14:40,690
out a little bit yeah yeah I want to get

331
00:14:45,270 --> 00:14:43,480
into this a little bit more a deep have

332
00:14:48,990 --> 00:14:45,280
you had the chance to read professor

333
00:14:52,260 --> 00:14:49,000
storix paper on the Ubatuba material um

334
00:14:54,540 --> 00:14:52,270
boo boo tuba not particularly okay okay

335
00:14:56,790 --> 00:14:54,550
goes into some detail about the isotopic

336
00:14:59,970 --> 00:14:56,800
ratios he didn't find anything

337
00:15:01,920 --> 00:14:59,980
he stole basically his conclusion was I

338
00:15:04,560 --> 00:15:01,930

can't figure out who made this you know

339
00:15:07,020 --> 00:15:04,570
he sent it to literally more than two

340
00:15:09,990 --> 00:15:07,030
dozen labs high-end labs you know MIT

341
00:15:12,210 --> 00:15:10,000
included and military different

342
00:15:14,430 --> 00:15:12,220
universities and could not figure out

343
00:15:15,870 --> 00:15:14,440
where it was manufactured that there was

344
00:15:17,820 --> 00:15:15,880
something again that goes back to the

345
00:15:19,890 --> 00:15:17,830
90s when he was doing this and he talked

346
00:15:23,400 --> 00:15:19,900
a little bit about the isotopic ratios I

347
00:15:25,830 --> 00:15:23,410
was very helpful one thing he described

348
00:15:28,560 --> 00:15:25,840
was how in the most normal manufacturing

349
00:15:32,520 --> 00:15:28,570
processes the lighter isotopes will burn

350
00:15:35,970 --> 00:15:32,530
off and apparently I guess Bolle and

351
00:15:39,630 --> 00:15:35,980
Nolan have talked about some pieces they

352
00:15:40,980 --> 00:15:39,640
have in their hands which Elizondo are

353
00:15:43,650 --> 00:15:40,990
apparently different pieces than

354
00:15:47,280 --> 00:15:43,660
elizondo's and what they've got is the

355
00:15:49,590 --> 00:15:47,290
unusual isotopic ratios that that's what

356
00:15:51,720 --> 00:15:49,600
they're saying so yeah yeah you want to

357
00:15:54,810 --> 00:15:51,730
loosen a little bit more on that and

358
00:15:57,660 --> 00:15:54,820
what if you can give us a quick tutorial

359
00:15:58,770 --> 00:15:57,670
on all this well we can all understand a

360
00:16:03,840 --> 00:15:58,780
little bit about what they're talking

361
00:16:05,910 --> 00:16:03,850
about there sure okay yes so let's let's

362
00:16:07,920 --> 00:16:05,920
all simplify and I would love to get

363
00:16:09,720 --> 00:16:07,930

these elements input right they can

364
00:16:11,880 --> 00:16:09,730
correct me if I'm wrong but the way that

365
00:16:14,010 --> 00:16:11,890
I see the two strategies that are at

366
00:16:16,290 --> 00:16:14,020
play here is the start up fast route

367
00:16:17,580 --> 00:16:16,300
which is the flashy way which is I

368
00:16:19,440 --> 00:16:17,590
believe you know the puppies I just

369
00:16:21,630 --> 00:16:19,450
talked about right that is going to be

370
00:16:23,700 --> 00:16:21,640
the flashy way you know so tea tea is

371
00:16:25,530 --> 00:16:23,710
safe potentially I believe we'll talk

372
00:16:29,100 --> 00:16:25,540
about all these things that we can't do

373
00:16:32,510 --> 00:16:29,110
what Gary Nolan and Jack they seem to be

374
00:16:35,610 --> 00:16:32,520
taking is a much more conservative route

375
00:16:38,340 --> 00:16:35,620
which is the isotope route it's the like

376
00:16:40,530 --> 00:16:38,350
I said it's the less sexy sort of way of

377
00:16:42,360 --> 00:16:40,540
going about proving stuff but it's also

378
00:16:44,970 --> 00:16:42,370
something that does need to be done it's

379
00:16:46,650 --> 00:16:44,980
ground zero and that if it's gonna be

380
00:16:48,810 --> 00:16:46,660
done scientifically through peer review

381
00:16:49,170 --> 00:16:48,820
they're absolutely taking their time it

382
00:16:52,490 --> 00:16:49,180
seems

383
00:16:54,510 --> 00:16:52,500
but they're doing it the right way and

384
00:16:55,890 --> 00:16:54,520
yeah just well I

385
00:16:57,900 --> 00:16:55,900
continue if you've got some more

386
00:16:59,910 --> 00:16:57,910
otherwise I've got the hell up okay okay

387
00:17:02,430 --> 00:16:59,920
yeah so I just want to make one quick

388
00:17:03,600 --> 00:17:02,440

note about why I think like like for

389
00:17:05,340 --> 00:17:03,610
example you might wonder why are they

390
00:17:07,230 --> 00:17:05,350
wasting their time with isotopes when

391
00:17:10,050 --> 00:17:07,240
they could also be looking for flashy

392
00:17:13,500 --> 00:17:10,060
properties like tea tsa or like Linda

393
00:17:15,000 --> 00:17:13,510
Howe right and here's my hypothesis it's

394
00:17:16,910 --> 00:17:15,010
from just what just from what I know of

395
00:17:21,120 --> 00:17:16,920
engineering physics in general is that

396
00:17:22,650 --> 00:17:21,130
if you look at the current are you aware

397
00:17:26,550 --> 00:17:22,660
of nucleosynthesis

398
00:17:29,820 --> 00:17:26,560
I am not so nucleosynthesis is the

399
00:17:35,580 --> 00:17:29,830
process of elements heavy elements being

400
00:17:38,280 --> 00:17:35,590
forged in stars and any really solar

401
00:17:42,390 --> 00:17:38,290
body you can say so whether that's a

402
00:17:45,530 --> 00:17:42,400
supernova or a collapsing star all of

403
00:17:47,790 --> 00:17:45,540
these yeah all these galactic bodies are

404
00:17:49,200 --> 00:17:47,800
ways that you can get these heavy

405
00:17:52,290 --> 00:17:49,210
elements right so we have different

406
00:17:54,480 --> 00:17:52,300
models that try to predict all the

407
00:17:56,460 --> 00:17:54,490
different kinds of isotopic ratios that

408
00:17:58,680 --> 00:17:56,470
we can expect in the universe that are

409
00:18:00,810 --> 00:17:58,690
naturally occurring so we can predict

410
00:18:02,790 --> 00:18:00,820
what the isotope ratios would be here on

411
00:18:04,950 --> 00:18:02,800
earth what we should expect from like

412
00:18:07,710 --> 00:18:04,960
Ursa Major or from the Andromeda galaxy

413
00:18:10,440 --> 00:18:07,720

we can do all that okay when you do all

414
00:18:13,950 --> 00:18:10,450
that and then you look at the isotopic

415
00:18:15,960 --> 00:18:13,960
ratios of the say slag that fell off a

416
00:18:18,000 --> 00:18:15,970
spaceship that you're looking at and

417
00:18:19,830 --> 00:18:18,010
those isotopic ratios so naturally with

418
00:18:21,120 --> 00:18:19,840
anything your models predict and they

419
00:18:23,700 --> 00:18:21,130
don't match up with anything on earth

420
00:18:25,320 --> 00:18:23,710
what's that what we're alluded to and

421
00:18:27,240 --> 00:18:25,330
let's say it's so far out of range that

422
00:18:29,730 --> 00:18:27,250
it just doesn't seem that nature could

423
00:18:32,580 --> 00:18:29,740
produce this ratio we're sort of left at

424
00:18:34,350 --> 00:18:32,590
this crossroads physically you have to

425
00:18:35,880 --> 00:18:34,360
admit that this either come came from a

426
00:18:39,270 --> 00:18:35,890
universe or part of the universe where

427
00:18:41,340 --> 00:18:39,280
the Volt laws are so vastly different we

428
00:18:42,870 --> 00:18:41,350
just couldn't predict it right then at

429
00:18:46,740 --> 00:18:42,880
least whatever this is whether it's

430
00:18:48,870 --> 00:18:46,750
technological or not or whoever built

431
00:18:51,330 --> 00:18:48,880
this whoever engineered this we're also

432
00:18:54,030 --> 00:18:51,340
able to engineer the isotopic ratio so

433
00:18:55,920 --> 00:18:54,040
unnatural ratios the same way we do to

434
00:18:59,450 --> 00:18:55,930
technology now we make a lot of mine

435
00:19:01,590 --> 00:18:59,460
actually so however it would take

436
00:19:03,019 --> 00:19:01,600
trillions and trillions and trillions of

437
00:19:05,789 --> 00:19:03,029
dollars and we still

438
00:19:07,529 --> 00:19:05,799

engineer isotopes right now to that

439
00:19:11,489 --> 00:19:07,539
level we just simply can't it's the

440
00:19:14,190 --> 00:19:11,499
Parker okay uh yeah so Alan just to tell

441
00:19:16,320 --> 00:19:14,200
the folks it certainly is possible to

442
00:19:18,659 --> 00:19:16,330
engineer isotopes because we did it to

443
00:19:20,789 --> 00:19:18,669
help build nuclear weapons right and

444
00:19:23,549 --> 00:19:20,799
that's a that says that as far as it

445
00:19:26,720 --> 00:19:23,559
goes right so if you wanted to engineer

446
00:19:30,779 --> 00:19:26,730
the entire every single isotope in the

447
00:19:35,220 --> 00:19:30,789
periodic table it's impossible got it

448
00:19:37,649 --> 00:19:35,230
okay now I'm done you can go check sure

449
00:19:39,749 --> 00:19:37,659
absolutely thank you so much I had

450
00:19:41,820 --> 00:19:39,759
wanted to ask you something a little

451
00:19:43,590 --> 00:19:41,830
different and then we're gonna come back

452
00:19:45,899 --> 00:19:43,600
around to some of the topics we just

453
00:19:49,019 --> 00:19:45,909
covered but I wanted to cover something

454
00:19:51,690 --> 00:19:49,029
kind of basic and that is what does

455
00:19:56,190 --> 00:19:51,700
proof mean regarding science scientific

456
00:19:57,710 --> 00:19:56,200
scientific proof that is deep so yeah

457
00:20:01,049 --> 00:19:57,720
that's a great question

458
00:20:03,590 --> 00:20:01,059
proof is probably the heaviest used word

459
00:20:05,669 --> 00:20:03,600
in science you can have right we're

460
00:20:08,310 --> 00:20:05,679
extremely careful when we say we've

461
00:20:10,019 --> 00:20:08,320
proven something mathematicians tend to

462
00:20:12,989 --> 00:20:10,029
be a little bit more lenient ironically

463
00:20:15,810 --> 00:20:12,999

however in science we can produce loss

464
00:20:17,720 --> 00:20:15,820
of evidence that can lead to conclusions

465
00:20:20,759 --> 00:20:17,730
that make you less wrong about something

466
00:20:24,090 --> 00:20:20,769
for example let's look at how I sign

467
00:20:26,279 --> 00:20:24,100
proved relativity we looked at in

468
00:20:28,320 --> 00:20:26,289
Eclipse right so was that proof of

469
00:20:33,210 --> 00:20:28,330
relativity or was that evidence that

470
00:20:35,310 --> 00:20:33,220
relativity is true and frankly it turns

471
00:20:37,200 --> 00:20:35,320
out that it's evidence that relativity

472
00:20:39,119 --> 00:20:37,210
is our best model that makes us less

473
00:20:41,159 --> 00:20:39,129
wrong about the universe but it's not

474
00:20:42,779 --> 00:20:41,169
proof that relativity is how the

475
00:20:45,930 --> 00:20:42,789
universe works it's not proof of

476
00:20:48,029 --> 00:20:45,940
anything else really and the only thing

477
00:20:49,919 --> 00:20:48,039
we can prove is that it happened so same

478
00:20:53,220 --> 00:20:49,929
thing with science we can prove

479
00:20:56,249 --> 00:20:53,230
something happened proving what caused

480
00:20:59,970 --> 00:20:56,259
it is a totally different sort of

481
00:21:02,279 --> 00:20:59,980
ballpark so proof in science to me is

482
00:21:05,009 --> 00:21:02,289
something that's clearly repeatable

483
00:21:07,080 --> 00:21:05,019
everybody agrees that it occurred I

484
00:21:09,090 --> 00:21:07,090
suppose on and they have their own way

485
00:21:10,639 --> 00:21:09,100
of checking you can I can prove that the

486
00:21:13,649 --> 00:21:10,649
moon exists

487
00:21:16,560 --> 00:21:13,659
maybe the a B one checking is a bit of a

488
00:21:19,680 --> 00:21:16,570

stringent requirement but yeah

489
00:21:22,200 --> 00:21:19,690
it's hard to apply the idea or concept

490
00:21:26,730 --> 00:21:22,210
of proof however with quantum physics is

491
00:21:28,890 --> 00:21:26,740
are correct to some extent it depends on

492
00:21:30,890 --> 00:21:28,900
what you're trying to prove so for

493
00:21:33,470 --> 00:21:30,900
example if you want to prove that

494
00:21:35,490 --> 00:21:33,480
particles have a wave particle duality

495
00:21:38,100 --> 00:21:35,500
anybody can do that in their garage or

496
00:21:39,720 --> 00:21:38,110
in their room now but if you want to

497
00:21:42,110 --> 00:21:39,730
prove that your model is correct of

498
00:21:45,270 --> 00:21:42,120
quantum mechanics good luck with that

499
00:21:48,140 --> 00:21:45,280
okay I wanted to cover something else

500
00:21:49,950 --> 00:21:48,150
that Albert Einstein said and that is

501
00:21:51,840 --> 00:21:49,960
imagination is more important than

502
00:21:54,060 --> 00:21:51,850
knowledge for knowledge is limited

503
00:21:56,580 --> 00:21:54,070
whereas imagination embraces the entire

504
00:21:59,060 --> 00:21:56,590
world stimulating progress giving birth

505
00:22:02,220 --> 00:21:59,070
to evolution how do you feel about that

506
00:22:06,780 --> 00:22:02,230
yeah I mean that resonates a lot I love

507
00:22:09,720 --> 00:22:06,790
creativity and I think if you can sort

508
00:22:13,230 --> 00:22:09,730
of transcend your human nature and you

509
00:22:16,140 --> 00:22:13,240
can imagine yourself as a tiny little

510
00:22:21,060 --> 00:22:16,150
particle to the biggest galaxy in the

511
00:22:22,830 --> 00:22:21,070
universe you can learn a lot more than

512
00:22:24,510 --> 00:22:22,840
you think just by knowledge you can

513
00:22:26,940 --> 00:22:24,520

actually come to the same conclusions as

514
00:22:28,560 --> 00:22:26,950
maybe some famous officer physicists did

515
00:22:30,840 --> 00:22:28,570
so I think that's really cool about

516
00:22:34,230 --> 00:22:30,850
creativity it is my understanding that

517
00:22:38,190 --> 00:22:34,240
Einstein did thought experiments and his

518
00:22:41,100 --> 00:22:38,200
head thought exercises in order to flesh

519
00:22:44,280 --> 00:22:41,110
out theories do you do the same kind of

520
00:22:46,890 --> 00:22:44,290
thing definitely every single day I love

521
00:22:48,600 --> 00:22:46,900
thought experiments now Carl Sagan said

522
00:22:51,030 --> 00:22:48,610
science is a way of thinking much more

523
00:22:55,350 --> 00:22:51,040
than is a body of knowledge do you agree

524
00:22:56,940 --> 00:22:55,360
with that I wish that was true still but

525
00:22:59,640 --> 00:22:56,950
today people treat it like a body of

526
00:23:01,920 --> 00:22:59,650
knowledge where scientists are like this

527
00:23:03,660 --> 00:23:01,930
is science because and if you know this

528
00:23:06,510 --> 00:23:03,670
volume knowledge you're a scientist if

529
00:23:09,110 --> 00:23:06,520
you don't you're not and I don't know I

530
00:23:11,370 --> 00:23:09,120
disagree with that

531
00:23:13,290 --> 00:23:11,380
I'm glad you disagree with it

532
00:23:15,390 --> 00:23:13,300
because uh you know it's just

533
00:23:16,890 --> 00:23:15,400
interesting that you have different

534
00:23:19,740 --> 00:23:16,900
perspectives on things and you don't

535
00:23:20,850 --> 00:23:19,750
necessarily agree with other mental

536
00:23:22,560 --> 00:23:20,860
Giants out there

537
00:23:25,440 --> 00:23:22,570
the last quote I wanted to reach you is

538
00:23:28,320 --> 00:23:25,450

kind of interesting you know Richard

539
00:23:30,450 --> 00:23:28,330
fineman's work very well and he's always

540
00:23:32,460 --> 00:23:30,460
been a very colorful character

541
00:23:35,129 --> 00:23:32,470
in the realm of science he had a very

542
00:23:37,080 --> 00:23:35,139
unique personality and he was very

543
00:23:39,539 --> 00:23:37,090
gregarious aside from being in a very

544
00:23:42,810 --> 00:23:39,549
deep intellectual and an intellectual

545
00:23:46,769 --> 00:23:42,820
I'm sorry a mental giant in the world of

546
00:23:48,930 --> 00:23:46,779
science he said this I have approximate

547
00:23:50,700 --> 00:23:48,940
answers and possible beliefs and

548
00:23:53,430 --> 00:23:50,710
different degrees of certainty about

549
00:23:56,369 --> 00:23:53,440
different things but I'm not absolutely

550
00:23:58,799 --> 00:23:56,379
sure of anything and on many things I

551
00:24:01,320 --> 00:23:58,809
don't know anything about such as

552
00:24:03,299 --> 00:24:01,330
whether it means anything to ask why we

553
00:24:04,859 --> 00:24:03,309
are here and what the question might

554
00:24:06,840 --> 00:24:04,869
mean I might think about it

555
00:24:09,480 --> 00:24:06,850
a little but if I can't figure it out

556
00:24:11,700 --> 00:24:09,490
then I go to something else but I don't

557
00:24:13,859 --> 00:24:11,710
have to know an answer I don't feel

558
00:24:15,659 --> 00:24:13,869
frightened by not knowing things by

559
00:24:18,299 --> 00:24:15,669
being lost in a mysterious universe

560
00:24:20,850 --> 00:24:18,309
without having any purpose which is the

561
00:24:23,700 --> 00:24:20,860
way it really is as far as I can tell

562
00:24:27,210 --> 00:24:23,710
possibly it doesn't fright me how do you

563
00:24:28,919 --> 00:24:27,220

feel about that to comment wow that's a

564
00:24:31,230 --> 00:24:28,929
really good quote I don't think I've

565
00:24:34,739 --> 00:24:31,240
heard that one in particular

566
00:24:37,980 --> 00:24:34,749
and like Fineman yeah I agree about

567
00:24:40,019 --> 00:24:37,990
being locally right or approximately

568
00:24:43,350 --> 00:24:40,029
less wrong than you were before

569
00:24:45,930 --> 00:24:43,360
um that being said I don't I also don't

570
00:24:48,960 --> 00:24:45,940
fear not knowing but I'm irritated by

571
00:24:50,430 --> 00:24:48,970
not knowing I think that for example and

572
00:24:52,799 --> 00:24:50,440
this is where I differ from people like

573
00:24:54,509 --> 00:24:52,809
Fineman and other scientists you you

574
00:24:57,239 --> 00:24:54,519
call it mental Giants let's say other

575
00:24:59,129 --> 00:24:57,249
mental Giants is that many of them stuck

576
00:25:01,289 --> 00:24:59,139
to just the math many of them stuck to

577
00:25:03,509 --> 00:25:01,299
just the physics and they killed at it

578
00:25:05,820 --> 00:25:03,519
but I take sort of like a more

579
00:25:09,570 --> 00:25:05,830
philosophical erotic route to the world

580
00:25:11,669 --> 00:25:09,580
in nature and I disagree I love thinking

581
00:25:13,049 --> 00:25:11,679
about why we're here and while someone

582
00:25:16,859 --> 00:25:13,059
like firemen would think that's a waste

583
00:25:18,629 --> 00:25:16,869
of time I don't at all so yeah good now

584
00:25:20,430 --> 00:25:18,639
I wanted to ask you is there a link

585
00:25:23,580 --> 00:25:20,440
between intelligence and mental illness

586
00:25:25,919 --> 00:25:23,590
do you believe that that's possible yeah

587
00:25:27,389 --> 00:25:25,929
absolutely so but I'm not like I don't

588
00:25:29,999 --> 00:25:27,399

have a psychology background so I can't

589
00:25:33,419 --> 00:25:30,009
I'm not qualified right so but I would

590
00:25:36,659 --> 00:25:33,429
I personally believe there is okay yeah

591
00:25:38,669 --> 00:25:36,669
I ask because you know what I was kind

592
00:25:41,460 --> 00:25:38,679
of curious myself when I thought about

593
00:25:42,899 --> 00:25:41,470
that idea that can someone go crazy for

594
00:25:44,010 --> 00:25:42,909
being too smart an example being a

595
00:25:49,500 --> 00:25:44,020
Unabomber with an IQ of

596
00:25:51,630 --> 00:25:49,510
167 and you know what what he did is so

597
00:25:55,530 --> 00:25:51,640
uh did you have any thoughts any further

598
00:25:58,200 --> 00:25:55,540
thoughts on that so yeah I did and I do

599
00:26:00,240 --> 00:25:58,210
think it comes down to being too aware

600
00:26:02,970 --> 00:26:00,250
of your surroundings and thinking too

601
00:26:07,320 --> 00:26:02,980
hard it can definitely make you go crazy

602
00:26:08,880 --> 00:26:07,330
because yeah I think life has better

603
00:26:12,300 --> 00:26:08,890
enjoy when you don't think about it too

604
00:26:15,510 --> 00:26:12,310
much there's just too many infinite

605
00:26:18,210 --> 00:26:15,520
numbers of questions and if you're

606
00:26:19,770 --> 00:26:18,220
somebody intelligent and you can't give

607
00:26:21,990 --> 00:26:19,780
up on trying to answer those questions

608
00:26:24,950 --> 00:26:22,000
you will go crazy if you don't also have

609
00:26:29,820 --> 00:26:24,960
some sort of balance or a way of yeah

610
00:26:31,170 --> 00:26:29,830
addressing your inevitable failure yeah

611
00:26:32,670 --> 00:26:31,180
I understand

612
00:26:36,270 --> 00:26:32,680
go ahead Frank you were gonna say

613
00:26:38,160 --> 00:26:36,280

something we'll also on the topics

614
00:26:41,790 --> 00:26:38,170
tonight there let me get to my notes

615
00:26:43,140 --> 00:26:41,800
here and I wanted to do you said that

616
00:26:44,880 --> 00:26:43,150
you wanted to talk a little bit about

617
00:26:47,160 --> 00:26:44,890
deep fakes that have been in the news

618
00:26:50,520 --> 00:26:47,170
lately and that is a pretty interesting

619
00:26:52,290 --> 00:26:50,530
subject although the the old school cut

620
00:26:54,240 --> 00:26:52,300
and paste fakes they seem to be working

621
00:26:55,350 --> 00:26:54,250
pretty well too but you have some

622
00:26:59,040 --> 00:26:55,360
interested in saying something about

623
00:27:01,560 --> 00:26:59,050
that deep right so I just wanted to

624
00:27:04,410 --> 00:27:01,570
bring that up with respect to what

625
00:27:08,490 --> 00:27:04,420
Jacques Vallee I I don't know Frank have

626
00:27:11,460 --> 00:27:08,500
you read Jacques Foley's paper 5 points

627
00:27:14,130 --> 00:27:11,470
or 5 arguments against the ETH I have

628
00:27:16,470 --> 00:27:14,140
not okay so essentially one of the

629
00:27:19,760 --> 00:27:16,480
points that he says against why the ETH

630
00:27:26,040 --> 00:27:19,770
needs to be fixed at least or address is

631
00:27:27,600 --> 00:27:26,050
how the UFO phenomena has repeated

632
00:27:29,520 --> 00:27:27,610
itself in different ways throughout

633
00:27:32,880 --> 00:27:29,530
culture right why does it show up as a

634
00:27:38,700 --> 00:27:32,890
ghost or an elf or a fairy or what have

635
00:27:41,250 --> 00:27:38,710
you so he said that essentially the the

636
00:27:44,340 --> 00:27:41,260
ETH needs to explain that why would an

637
00:27:47,400 --> 00:27:44,350
alien keep up with our culture so this

638
00:27:50,250 --> 00:27:47,410

is where I brought up the deep fakes and

639
00:27:52,050 --> 00:27:50,260
this is what I'm reminded of because the

640
00:27:54,840 --> 00:27:52,060
thing about deep fakes is that they can

641
00:27:57,510 --> 00:27:54,850
only generate fake faces or fake voice

642
00:27:59,100 --> 00:27:57,520
examples of voices they've heard before

643
00:28:01,620 --> 00:27:59,110
or types of faces that they've seen

644
00:28:03,480 --> 00:28:01,630
before but they can't create something

645
00:28:05,520 --> 00:28:03,490
entirely new that they've never seen

646
00:28:08,070 --> 00:28:05,530
based on any data that they were never

647
00:28:11,460 --> 00:28:08,080
trained on so if your training set is

648
00:28:13,790 --> 00:28:11,470
just your 16th century population then

649
00:28:16,140 --> 00:28:13,800
all this say machine learning or this

650
00:28:18,870 --> 00:28:16,150
machine learning algorithm or this robot

651
00:28:21,870 --> 00:28:18,880
will have is access to cultural data

652
00:28:24,510 --> 00:28:21,880
existed in the 16th century so it would

653
00:28:27,180 --> 00:28:24,520
see loss of coasts it would see lots of

654
00:28:29,820 --> 00:28:27,190
fairies and then that's the only thing

655
00:28:31,740 --> 00:28:29,830
would be able to produce so I would say

656
00:28:33,720 --> 00:28:31,750
that it's more consequence of an

657
00:28:37,050 --> 00:28:33,730
algorithm it doesn't necessarily have to

658
00:28:38,670 --> 00:28:37,060
be some intelligence particularly taking

659
00:28:41,070 --> 00:28:38,680
an interest in us and falling our

660
00:28:44,400 --> 00:28:41,080
culture and adapting to it like

661
00:28:48,860 --> 00:28:44,410
cautiously understood I just want to let

662
00:28:51,720 --> 00:28:48,870
everybody know that the hypothesis that

663
00:28:54,750 --> 00:28:51,730

deep was just talking about which is

664
00:28:59,340 --> 00:28:54,760
called ETH stands for extraterrestrial

665
00:29:02,190 --> 00:28:59,350
hypothesis ok I wanted to ask you a

666
00:29:03,390 --> 00:29:02,200
little bit about intelligence I'm just

667
00:29:05,490 --> 00:29:03,400
going to bounce around here if that's

668
00:29:07,200 --> 00:29:05,500
okay by you and we might actually

669
00:29:09,360 --> 00:29:07,210
revisit some of the topics we've already

670
00:29:11,160 --> 00:29:09,370
talked about but I still want to ask you

671
00:29:12,840 --> 00:29:11,170
this question do you believe that

672
00:29:13,110 --> 00:29:12,850
intelligence is something you're born

673
00:29:15,210 --> 00:29:13,120
with

674
00:29:17,280 --> 00:29:15,220
is it acquired is it true that

675
00:29:19,470 --> 00:29:17,290
intelligence is earned what do you think

676
00:29:23,130 --> 00:29:19,480
deep

677
00:29:26,400 --> 00:29:23,140
I think it's genetics probably helps but

678
00:29:29,100 --> 00:29:26,410
it's acquired its totally quiet okay

679
00:29:31,290 --> 00:29:29,110
I've seen some shows and read a few

680
00:29:36,030 --> 00:29:31,300
things that indicated the processing

681
00:29:38,280 --> 00:29:36,040
power of a person's brain seems to weigh

682
00:29:40,620 --> 00:29:38,290
very heavily regarding whether their

683
00:29:43,050 --> 00:29:40,630
so-called IQ as they call it would be

684
00:29:45,060 --> 00:29:43,060
very high or not do you think that the

685
00:29:48,540 --> 00:29:45,070
brains processing power has something to

686
00:29:52,940 --> 00:29:48,550
do with being a certified genius or a

687
00:29:57,000 --> 00:29:52,950
person that is considered a very smart

688
00:30:00,510 --> 00:29:57,010

it would to some extent it depends on

689
00:30:03,270 --> 00:30:00,520
how you so I mean if take a computer for

690
00:30:06,090 --> 00:30:03,280
example a computer is really good at

691
00:30:08,130 --> 00:30:06,100
rerouting its compute power to different

692
00:30:09,660 --> 00:30:08,140
parts of the computer right different

693
00:30:11,430 --> 00:30:09,670
processes require different amounts of

694
00:30:14,640 --> 00:30:11,440
power and then needs to constantly do

695
00:30:16,500 --> 00:30:14,650
mental balance you can say so humans

696
00:30:18,590 --> 00:30:16,510
that I believe do the same type of

697
00:30:20,820 --> 00:30:18,600
balancing parts of the brain are

698
00:30:23,400 --> 00:30:20,830
dedicated to eating parts of the brain

699
00:30:25,140 --> 00:30:23,410
are dedicated to just learning and vice

700
00:30:26,580 --> 00:30:25,150
versa and I think some people if they

701
00:30:29,250 --> 00:30:26,590
can reroute a greater part of their

702
00:30:33,270 --> 00:30:29,260
brain towards just thinking and learning

703
00:30:37,050 --> 00:30:33,280
then they might have a leg up and quote

704
00:30:39,090 --> 00:30:37,060
be more of a genius okay now let's just

705
00:30:41,490 --> 00:30:39,100
use a bridge as a metaphor for an a

706
00:30:43,500 --> 00:30:41,500
question I have for you and that is

707
00:30:46,290 --> 00:30:43,510
let's just say we're going to build a

708
00:30:48,510 --> 00:30:46,300
bridge what is more important in

709
00:30:54,240 --> 00:30:48,520
building that bridge creativity or

710
00:30:56,430 --> 00:30:54,250
knowledge and why so creativity is

711
00:30:59,310 --> 00:30:56,440
important for building the first bridge

712
00:31:03,480 --> 00:30:59,320
but you need knowledge in order to build

713
00:31:06,750 --> 00:31:03,490

the next bridges after that the reason

714
00:31:09,210 --> 00:31:06,760
why is because yeah creativity just

715
00:31:12,090 --> 00:31:09,220
going back to what Einstein said it

716
00:31:13,410 --> 00:31:12,100
really lets you supersede your knowledge

717
00:31:15,390 --> 00:31:13,420
if you've never built a bridge before

718
00:31:17,160 --> 00:31:15,400
you're gonna have to be creative and

719
00:31:20,700 --> 00:31:17,170
sort of have that spatial recognition

720
00:31:22,080 --> 00:31:20,710
and ability to render different versions

721
00:31:26,040 --> 00:31:22,090
of the universe that will solve your

722
00:31:27,810 --> 00:31:26,050
problem like a bridge or stud now I had

723
00:31:32,280 --> 00:31:27,820
another question for you and that's

724
00:31:34,950 --> 00:31:32,290
about immortality immortality can you

725
00:31:37,740 --> 00:31:34,960
touch on that topic because you and I

726
00:31:40,290 --> 00:31:37,750
had been discussing that last well

727
00:31:43,770 --> 00:31:40,300
actually this week and the weakness of

728
00:31:45,690 --> 00:31:43,780
man to kill also those two interesting

729
00:31:48,180 --> 00:31:45,700
topics and then I brought up another

730
00:31:50,430 --> 00:31:48,190
topic to you about interestingly enough

731
00:31:53,040 --> 00:31:50,440
serial killers so the idea of

732
00:31:55,860 --> 00:31:53,050
immortality and the weakness of man to

733
00:31:59,460 --> 00:31:55,870
kill can you either marry those topics

734
00:32:01,980 --> 00:31:59,470
together or talk about them singly well

735
00:32:03,240 --> 00:32:01,990
the way that I see it is that it's one

736
00:32:05,250 --> 00:32:03,250
of the things that people worry about

737
00:32:08,040 --> 00:32:05,260
right is that what happens when we do

738
00:32:10,290 --> 00:32:08,050

have an immortal Society you also have

739
00:32:12,660 --> 00:32:10,300
immortal serial killers potentially but

740
00:32:14,700 --> 00:32:12,670
that's just exaggerating problems that

741
00:32:16,590 --> 00:32:14,710
we started with in the first place so

742
00:32:19,410 --> 00:32:16,600
what we should really be doing is fixing

743
00:32:20,700 --> 00:32:19,420
our people and then rather than worrying

744
00:32:23,290 --> 00:32:20,710
about what happens when we become

745
00:32:27,940 --> 00:32:25,750
that's fantastic I wanted to talk to you

746
00:32:30,310 --> 00:32:27,950
about medicine do you have any thoughts

747
00:32:32,140 --> 00:32:30,320
on medicine and if so what they what are

748
00:32:33,370 --> 00:32:32,150
they regarding the future of our planet

749
00:32:35,590 --> 00:32:33,380
and medicine

750
00:32:37,270 --> 00:32:35,600
hey chant dekinai yeah deep if you could

751
00:32:39,130 --> 00:32:37,280
put that on hold really quick I just

752
00:32:41,170 --> 00:32:39,140
want to follow up on that what you and

753
00:32:43,180 --> 00:32:41,180
chant we're talking about going on I'm

754
00:32:45,100 --> 00:32:43,190
seeing that that we might be going into

755
00:32:47,200 --> 00:32:45,110
a period where UFOs are sort of a

756
00:32:49,990 --> 00:32:47,210
catalyst for thought if you get my

757
00:32:51,760 --> 00:32:50,000
meaning and I think that's a very good

758
00:32:54,190 --> 00:32:51,770
thing I think that's one of the great

759
00:32:55,870 --> 00:32:54,200
things about the field but it's it seems

760
00:32:57,820 --> 00:32:55,880
like you're using them as a bit of a

761
00:32:59,620 --> 00:32:57,830
catalyst for thought in your own right

762
00:33:03,850 --> 00:32:59,630
and can you tell us about how that came

763
00:33:05,110 --> 00:33:03,860

about if it did so what what exactly is

764
00:33:06,400 --> 00:33:05,120
the catalyst I'm not sure if I

765
00:33:08,950 --> 00:33:06,410
understand the question oh well I got

766
00:33:10,870 --> 00:33:08,960
catalyst I know like what is the

767
00:33:14,080 --> 00:33:10,880
catalyst in here what do you mean oh

768
00:33:16,320 --> 00:33:14,090
UFOs you oppose being the catalyst so

769
00:33:18,790 --> 00:33:16,330
what was the catalyst for me

770
00:33:22,630 --> 00:33:18,800
well yeah it seems to be that you're

771
00:33:26,170 --> 00:33:22,640
thinking in terms of UFOs the technology

772
00:33:27,880 --> 00:33:26,180
that they bring is going to lead to

773
00:33:30,600 --> 00:33:27,890
advancement for us down the road if we

774
00:33:32,890 --> 00:33:30,610
start giving it some serious thought and

775
00:33:35,950 --> 00:33:32,900
you know that seems like it's the case

776
00:33:39,130 --> 00:33:35,960
for you and if it is tell us how that

777
00:33:40,480 --> 00:33:39,140
came to be so yeah that's a great

778
00:33:44,800 --> 00:33:40,490
question first of all I'm pretty

779
00:33:47,080 --> 00:33:44,810
agnostic I was before I learned and got

780
00:33:49,480 --> 00:33:47,090
really deep into UFOs I was really

781
00:33:52,960 --> 00:33:49,490
interested in just quantum computing

782
00:33:54,940 --> 00:33:52,970
still am i and however I just see that

783
00:33:57,070 --> 00:33:54,950
it's part of an even bigger picture that

784
00:33:58,960 --> 00:33:57,080
I didn't think about before in terms of

785
00:34:00,730 --> 00:33:58,970
the catalyst the only reason why I refer

786
00:34:02,560 --> 00:34:00,740
to UFOs as the catalyst is just because

787
00:34:04,720 --> 00:34:02,570
beyond the fact that there is an

788
00:34:06,430 --> 00:34:04,730

advanced amount of technology it will

789
00:34:10,180 --> 00:34:06,440
change society right in the way that we

790
00:34:12,220 --> 00:34:10,190
see each other and see ourselves but in

791
00:34:14,830 --> 00:34:12,230
the interim I think what it'll also

792
00:34:17,590 --> 00:34:14,840
speed up what I don't know I don't think

793
00:34:19,950 --> 00:34:17,600
people many people realize is how

794
00:34:23,080 --> 00:34:19,960
quickly we're going to be replacing oil

795
00:34:26,409 --> 00:34:23,090
it seems to be it's it's talking about

796
00:34:29,710 --> 00:34:26,419
all the time hypothetically but I think

797
00:34:32,230 --> 00:34:29,720
now we're truly coming towards that sort

798
00:34:33,669 --> 00:34:32,240
of part of human history however there's

799
00:34:36,110 --> 00:34:33,679
a bunch of problems that we haven't

800
00:34:37,640 --> 00:34:36,120
solved in terms of socio-economic

801
00:34:41,330 --> 00:34:37,650
actors that need to be addressed before

802
00:34:44,840 --> 00:34:41,340
this happens so that's that I think that

803
00:34:47,960 --> 00:34:44,850
yeah yeah it's I don't know I guess my

804
00:34:49,640 --> 00:34:47,970
point is is catalyzing something but we

805
00:34:52,160 --> 00:34:49,650
really need to make sure it catalyzes us

806
00:34:54,350 --> 00:34:52,170
towards a proper singularity that's the

807
00:34:57,620 --> 00:34:54,360
best way I can say it okay got it okay

808
00:35:00,950 --> 00:34:57,630
sorry about that Jen Guyot oh no no

809
00:35:02,870 --> 00:35:00,960
please I interrupt at any time I always

810
00:35:06,920 --> 00:35:02,880
learn something whenever you ask a

811
00:35:09,410 --> 00:35:06,930
question a regarding medicine deep I

812
00:35:11,180 --> 00:35:09,420
wanted to ask you you seem to have a

813
00:35:13,430 --> 00:35:11,190

little bit of an interest regarding

814
00:35:15,770 --> 00:35:13,440
medicine and I wanted to ask you in

815
00:35:17,960 --> 00:35:15,780
terms of the future of our planet or

816
00:35:19,010 --> 00:35:17,970
really in any aspect of medicine do you

817
00:35:22,970 --> 00:35:19,020
have any thoughts you want to share

818
00:35:26,600 --> 00:35:22,980
about that um yes certainly so one thing

819
00:35:29,090 --> 00:35:26,610
that so and this is something that a lot

820
00:35:31,850 --> 00:35:29,100
of people even today don't seem to be

821
00:35:33,800 --> 00:35:31,860
too worried about is superbugs is

822
00:35:35,930 --> 00:35:33,810
something that I try to address a couple

823
00:35:38,240 --> 00:35:35,940
years ago but I kind of gave up because

824
00:35:40,730 --> 00:35:38,250
I didn't have enough medical knowledge

825
00:35:43,670 --> 00:35:40,740
myself but what I saw in it this is

826
00:35:46,280 --> 00:35:43,680
still true is that by something like

827
00:35:48,440 --> 00:35:46,290
2050 superbugs will end up being the

828
00:35:51,350 --> 00:35:48,450
leading cause of death in the world

829
00:35:52,670 --> 00:35:51,360
so just to just to make sure we're on

830
00:35:54,020 --> 00:35:52,680
the same page do you know where that

831
00:35:56,750 --> 00:35:54,030
super bug is right

832
00:35:59,690 --> 00:35:56,760
oh please explain for our listeners what

833
00:36:04,130 --> 00:35:59,700
that is okay sure so a super bug is

834
00:36:06,770 --> 00:36:04,140
essentially a bacteria that normally if

835
00:36:08,090 --> 00:36:06,780
you were get sick by or infected by you

836
00:36:10,790 --> 00:36:08,100
would be able to cure yourself with

837
00:36:13,730 --> 00:36:10,800
antibiotics however superbugs are

838
00:36:15,980 --> 00:36:13,740

bacteria that end up mutating itself to

839
00:36:17,780 --> 00:36:15,990
the point that it perfectly masters all

840
00:36:20,000 --> 00:36:17,790
the possible medicine that's out there

841
00:36:22,370 --> 00:36:20,010
that can kill it and it becomes super it

842
00:36:24,080 --> 00:36:22,380
becomes impossible kill which means that

843
00:36:25,760 --> 00:36:24,090
if you get infected by it you're dead

844
00:36:28,670 --> 00:36:25,770
period there's literally nothing that

845
00:36:32,030 --> 00:36:28,680
can save you so superbugs are something

846
00:36:34,070 --> 00:36:32,040
that happened very very rarely it's so

847
00:36:35,960 --> 00:36:34,080
rare that it's reported on the news if

848
00:36:37,850 --> 00:36:35,970
it happens because it's not really a

849
00:36:40,070 --> 00:36:37,860
problem yet they don't really exist too

850
00:36:41,090 --> 00:36:40,080
much in mainstream in the mainstream

851
00:36:43,640 --> 00:36:41,100
world

852
00:36:45,590 --> 00:36:43,650
so when you look at that and then you

853
00:36:47,720 --> 00:36:45,600
look at how fast our technology is

854
00:36:49,470 --> 00:36:47,730
progressing in terms of medicine I see a

855
00:36:51,800 --> 00:36:49,480
big problem because we're not

856
00:36:56,540 --> 00:36:51,810
progress is seen progressing fast enough

857
00:37:00,630 --> 00:36:56,550
to deal with issues like that so I guess

858
00:37:04,080 --> 00:37:00,640
yeah what we really need to do is merge

859
00:37:07,320 --> 00:37:04,090
our computational technology with more

860
00:37:09,570 --> 00:37:07,330
ethical biological experiments and we

861
00:37:12,000 --> 00:37:09,580
also and I'm gonna I guess keep tying it

862
00:37:14,790 --> 00:37:12,010
back we also need UFO disclosure we need

863
00:37:17,970 --> 00:37:14,800

transparency because one thing that and

864
00:37:19,470 --> 00:37:17,980
this and of course it's a it should be

865
00:37:21,120 --> 00:37:19,480
taken with a grain of salt but I had

866
00:37:22,680 --> 00:37:21,130
come across this one document a long

867
00:37:25,470 --> 00:37:22,690
time ago somewhere on the internet and

868
00:37:27,990 --> 00:37:25,480
it talks about UFO healing cases and

869
00:37:30,270 --> 00:37:28,000
they talked about how many of the

870
00:37:32,130 --> 00:37:30,280
abductees are people who have claimed to

871
00:37:34,109 --> 00:37:32,140
have been healed by UFOs

872
00:37:36,870 --> 00:37:34,119
they sort of documented all of them and

873
00:37:40,140 --> 00:37:36,880
if they did the numbers and they found

874
00:37:42,390 --> 00:37:40,150
that cancer was the most cured disease

875
00:37:43,920 --> 00:37:42,400
supposedly and my guess is that that's

876
00:37:45,930 --> 00:37:43,930
cos cancer can show up anywhere in the

877
00:37:47,640 --> 00:37:45,940
body so it probably had a statistically

878
00:37:50,640 --> 00:37:47,650
higher chance of being found on an

879
00:37:53,880 --> 00:37:50,650
abductee that being said if any of that

880
00:37:56,010 --> 00:37:53,890
is true we're dealing with species that

881
00:37:58,349 --> 00:37:56,020
know our biology and our medicine better

882
00:38:00,990 --> 00:37:58,359
than we do so I would really like to

883
00:38:04,560 --> 00:38:01,000
know how that works it's interesting

884
00:38:06,000 --> 00:38:04,570
because if there are extraterrestrials

885
00:38:08,099 --> 00:38:06,010
out there I happen to believe there are

886
00:38:11,520 --> 00:38:08,109
and I happen to believe that there's a

887
00:38:13,950 --> 00:38:11,530
multitude that that there eons ahead of

888
00:38:16,280 --> 00:38:13,960

us technology wise and there's too many

889
00:38:20,250 --> 00:38:16,290
different kinds to possibly even count

890
00:38:22,440 --> 00:38:20,260
that if they have made it this far let's

891
00:38:25,140 --> 00:38:22,450
just pretend hundreds of millions of

892
00:38:27,840 --> 00:38:25,150
years or longer they probably have

893
00:38:30,960 --> 00:38:27,850
already figured out super bugs because

894
00:38:34,230 --> 00:38:30,970
they're still around right that would be

895
00:38:36,750 --> 00:38:34,240
same thing right so then what you just

896
00:38:39,810 --> 00:38:36,760
said is completely possible regarding

897
00:38:46,590 --> 00:38:39,820
the possibility of an ET civilization

898
00:38:51,330 --> 00:38:46,600
here with their medical issues I had a

899
00:38:53,760 --> 00:38:51,340
situation occur to me twice so I'm an

900
00:38:57,810 --> 00:38:53,770
individual who had triple negative

901
00:39:00,599 --> 00:38:57,820
breast cancer twice in a row and it's

902
00:39:03,420 --> 00:39:00,609
really rare to ever get that but I got

903
00:39:08,329 --> 00:39:03,430
that twice and that's just how the

904
00:39:11,160 --> 00:39:08,339
rolled now there is no cure for that and

905
00:39:14,250 --> 00:39:11,170
it's also not a good thing if you get it

906
00:39:17,339 --> 00:39:14,260
a third time so it's just interesting

907
00:39:18,870 --> 00:39:17,349
that you say that of course that would

908
00:39:23,510 --> 00:39:18,880
certainly be a great big hope for

909
00:39:27,569 --> 00:39:23,520
everyone if et's were to ever somehow

910
00:39:30,450 --> 00:39:27,579
have some kind of communication with our

911
00:39:32,450 --> 00:39:30,460
planet and possibly a friendly agreement

912
00:39:37,349 --> 00:39:32,460
where we can live with them in harmony

913
00:39:40,620 --> 00:39:37,359

and then also have some kind of trade

914
00:39:42,839 --> 00:39:40,630
off where we can enjoy the technological

915
00:39:47,000 --> 00:39:42,849
and medicine related advances that they

916
00:39:50,099 --> 00:39:47,010
have possibly as well right absolutely

917
00:39:53,520 --> 00:39:50,109
okay and so I wanted to ask you a little

918
00:39:55,650 --> 00:39:53,530
bit more about the idea of deep fakes

919
00:39:57,420 --> 00:39:55,660
although we did cover that there was

920
00:40:00,809 --> 00:39:57,430
something in the news not that long ago

921
00:40:02,790 --> 00:40:00,819
about how some politician there was a

922
00:40:06,000 --> 00:40:02,800
situation occurred where there was a

923
00:40:07,380 --> 00:40:06,010
video of her and somehow somebody had

924
00:40:09,599 --> 00:40:07,390
made it look like she had said something

925
00:40:12,660 --> 00:40:09,609
else when she hadn't isn't it possible

926
00:40:14,640 --> 00:40:12,670
that it's a this kind of deep fake

927
00:40:16,740 --> 00:40:14,650
technology can be used in a criminal

928
00:40:18,839 --> 00:40:16,750
manner and if so what are the

929
00:40:22,589 --> 00:40:18,849
implications of that are we supposed to

930
00:40:25,109 --> 00:40:22,599
get used to that idea we are let's start

931
00:40:26,609 --> 00:40:25,119
with that we are absolutely we're going

932
00:40:28,530 --> 00:40:26,619
to have to as much as it's nice to say

933
00:40:31,589 --> 00:40:28,540
we're gonna have to get used to the

934
00:40:33,480 --> 00:40:31,599
possibility that people you even start

935
00:40:34,859 --> 00:40:33,490
talking to the Internet in five years

936
00:40:37,770 --> 00:40:34,869
from now might just not even exist

937
00:40:39,720 --> 00:40:37,780
period it might just be a ball I I

938
00:40:43,289 --> 00:40:39,730

wouldn't doubt it if we get to that

939
00:40:46,049 --> 00:40:43,299
level so with that being said there's

940
00:40:47,970 --> 00:40:46,059
something called adversarial attacks so

941
00:40:51,329 --> 00:40:47,980
adversarial attacks are interesting

942
00:40:52,319 --> 00:40:51,339
because the problem or that I don't know

943
00:40:56,849 --> 00:40:52,329
if I'm pronouncing it right but the

944
00:40:59,700 --> 00:40:56,859
exilis heal or or the vulnerability of

945
00:41:01,740 --> 00:40:59,710
neural networks is that they don't have

946
00:41:03,539 --> 00:41:01,750
context like a human does right so let's

947
00:41:05,160 --> 00:41:03,549
say you take a picture of a stop sign

948
00:41:08,039 --> 00:41:05,170
and you want to neural network to

949
00:41:10,020 --> 00:41:08,049
classify that this is a stop sign if you

950
00:41:13,950 --> 00:41:10,030
know the algorithm that's feeding that

951
00:41:15,750 --> 00:41:13,960
neural network and what makes it make

952
00:41:17,280 --> 00:41:15,760
the decisions that it does you can

953
00:41:19,350 --> 00:41:17,290
actually set up

954
00:41:21,330 --> 00:41:19,360
and put like a little sticker with

955
00:41:23,520 --> 00:41:21,340
certain pixels it could be a weird

956
00:41:25,680 --> 00:41:23,530
combination of colors you could put that

957
00:41:28,140 --> 00:41:25,690
sticker on top of the stop sign and you

958
00:41:29,610 --> 00:41:28,150
would trick that neural network if you

959
00:41:31,320 --> 00:41:29,620
knew it's math you could trick it into

960
00:41:35,340 --> 00:41:31,330
thinking there's a human there or it

961
00:41:36,870 --> 00:41:35,350
says go and so this is impossible to get

962
00:41:39,030 --> 00:41:36,880
around for neural networks you just have

963
00:41:41,790 --> 00:41:39,040

to keep patching those bugs so what I

964
00:41:43,740 --> 00:41:41,800
see is this back and forth of deep fakes

965
00:41:47,250 --> 00:41:43,750
and then people making deep fake filters

966
00:41:50,780 --> 00:41:47,260
and it'll just keep going ad infinitum

967
00:41:55,830 --> 00:41:50,790
somebody in the comments for you boy

968
00:41:58,410 --> 00:41:55,840
asked about is the internet I believe or

969
00:42:00,480 --> 00:41:58,420
social media a mass data collection for

970
00:42:02,730 --> 00:42:00,490
deep fakes absolutely that's a great

971
00:42:07,020 --> 00:42:02,740
question that's exactly what's going on

972
00:42:09,810 --> 00:42:07,030
not only is our faces a brilliant way to

973
00:42:12,660 --> 00:42:09,820
create deep fakes so are all of our

974
00:42:14,910 --> 00:42:12,670
conversations and if you look at how a

975
00:42:17,220 --> 00:42:14,920
network is a commodity or social media

976
00:42:20,700 --> 00:42:17,230
network then eventually you start up

977
00:42:23,160 --> 00:42:20,710
wondering who is going to become the

978
00:42:25,320 --> 00:42:23,170
next commodity is it still humans or is

979
00:42:29,280 --> 00:42:25,330
it the bots that we're creating based

980
00:42:31,500 --> 00:42:29,290
off of our data I have an odd question I

981
00:42:34,950 --> 00:42:31,510
need more folks that's just what we need

982
00:42:36,900 --> 00:42:34,960
more face I did have a kind of an odd

983
00:42:38,940 --> 00:42:36,910
question for you that's a random

984
00:42:42,210 --> 00:42:38,950
question not really related to anything

985
00:42:44,810 --> 00:42:42,220
we've talked about I wanted to know do

986
00:42:49,640 --> 00:42:44,820
you believe that hypothesis that

987
00:42:55,980 --> 00:42:49,650
extraterrestrials are us in the future

988
00:42:59,670 --> 00:42:55,990

no okay no and if so if you feel that

989
00:43:02,930 --> 00:42:59,680
way why is that just because I think it

990
00:43:05,550 --> 00:43:02,940
would break too many time paradoxes I

991
00:43:07,080 --> 00:43:05,560
you you know who is coming back to us

992
00:43:09,540 --> 00:43:07,090
because that person is vulnerable

993
00:43:11,070 --> 00:43:09,550
invulnerable to my grandfather's paradox

994
00:43:14,160 --> 00:43:11,080
there's no getting around that

995
00:43:17,010 --> 00:43:14,170
from what I see and if they could come

996
00:43:19,260 --> 00:43:17,020
back to us we would probably be able to

997
00:43:22,080 --> 00:43:19,270
detect such ripples in time

998
00:43:24,570 --> 00:43:22,090
I don't know then again maybe not but

999
00:43:27,150 --> 00:43:24,580
then you look at human biology can we

1000
00:43:29,460 --> 00:43:27,160
even physically travel back in time what

1001
00:43:30,750 --> 00:43:29,470
if your atoms no longer exist you travel

1002
00:43:32,580 --> 00:43:30,760
back in time

1003
00:43:34,920 --> 00:43:32,590
where the universes I don't know there's

1004
00:43:36,480 --> 00:43:34,930
just too many problems with that I just

1005
00:43:37,190 --> 00:43:36,490
don't see how humans could ever pull it

1006
00:43:40,140 --> 00:43:37,200
off

1007
00:43:42,510 --> 00:43:40,150
understood okay and then I also wanted

1008
00:43:48,900 --> 00:43:42,520
to ask you about how you approach

1009
00:43:52,860 --> 00:43:48,910
problems to solve them the the question

1010
00:43:55,500 --> 00:43:52,870
I have is do you start from the bottom

1011
00:43:57,150 --> 00:43:55,510
up or the top down just in a macro way

1012
00:44:00,690 --> 00:43:57,160
in a very loose way I'm asking that

1013
00:44:02,610 --> 00:44:00,700

question how do you attack problem when

1014
00:44:08,070 --> 00:44:02,620
you have one in front of you powder

1015
00:44:10,920 --> 00:44:08,080
outwards so yeah I don't really know

1016
00:44:12,900 --> 00:44:10,930
because I've never explicitly thought

1017
00:44:14,850 --> 00:44:12,910
about my thought processes and how I

1018
00:44:17,180 --> 00:44:14,860
solve problems but it's extremely

1019
00:44:20,490 --> 00:44:17,190
systematic I could say that I

1020
00:44:23,100 --> 00:44:20,500
compartmentalize everything I visualize

1021
00:44:25,590 --> 00:44:23,110
the heck out of it and I break it up and

1022
00:44:28,170 --> 00:44:25,600
sort of like pause it in space-time you

1023
00:44:30,990 --> 00:44:28,180
could say so if it's something visual I

1024
00:44:34,140 --> 00:44:31,000
try to freeze it and move it around and

1025
00:44:36,870 --> 00:44:34,150
manipulate it or see how it feels or you

1026
00:44:38,850 --> 00:44:36,880
know what I mean yes I do by the way I

1027
00:44:41,490 --> 00:44:38,860
read something a while back here's

1028
00:44:44,250 --> 00:44:41,500
something else that's random regarding

1029
00:44:46,590 --> 00:44:44,260
an individual who is considered one of

1030
00:44:47,970 --> 00:44:46,600
the smartest if not supposedly the

1031
00:44:52,080 --> 00:44:47,980
smartest person on the planet again

1032
00:44:56,340 --> 00:44:52,090
we're going by IQ here okay and that is

1033
00:44:59,400 --> 00:44:56,350
a the story goes that he decided to go

1034
00:45:02,280 --> 00:44:59,410
ahead and drop out of society and work

1035
00:45:04,980 --> 00:45:02,290
on a theory of everything do you think

1036
00:45:07,650 --> 00:45:04,990
that it's possible to have a theory of

1037
00:45:12,210 --> 00:45:07,660
everything to unify everything under one

1038
00:45:13,830 --> 00:45:12,220

theory no I think it's no definitely not

1039
00:45:17,070 --> 00:45:13,840
it's impossible because I would make you

1040
00:45:19,200 --> 00:45:17,080
got right and well maybe you can't even

1041
00:45:20,820 --> 00:45:19,210
if you can know everything there's a

1042
00:45:22,560 --> 00:45:20,830
paradoxical flaw so there's something

1043
00:45:25,830 --> 00:45:22,570
called curta kordell's incompleteness

1044
00:45:27,930 --> 00:45:25,840
theorem and nobody has resolved that so

1045
00:45:29,190 --> 00:45:27,940
until you do we can't even prove that it

1046
00:45:31,290 --> 00:45:29,200
is possible to have a theory of

1047
00:45:33,420 --> 00:45:31,300
everything because just for a quick

1048
00:45:36,120 --> 00:45:33,430
context back in the early 1900's Kurt

1049
00:45:38,520 --> 00:45:36,130
gödel there was another famous

1050
00:45:40,140 --> 00:45:38,530
mathematician named David Hilbert David

1051
00:45:43,080 --> 00:45:40,150
Hilbert was the best mathematician of

1052
00:45:44,849 --> 00:45:43,090
his time and he was racing Einstein to

1053
00:45:46,950 --> 00:45:44,859
create like relative

1054
00:45:49,319 --> 00:45:46,960
obviously we know that Einstein beat him

1055
00:45:51,989 --> 00:45:49,329
as history says but it was very close

1056
00:45:55,079 --> 00:45:51,999
and now so David Hilbert had essentially

1057
00:45:56,789 --> 00:45:55,089
put out these 30 problems open-ended

1058
00:45:59,880 --> 00:45:56,799
math problems for the math community and

1059
00:46:02,640 --> 00:45:59,890
then 30 or so years later Kurt gödel

1060
00:46:03,690 --> 00:46:02,650
comes around and Kurt gödel says he

1061
00:46:07,200 --> 00:46:03,700
picks one of the problems about

1062
00:46:10,380 --> 00:46:07,210
incompleteness and he basically here was

1063
00:46:12,420 --> 00:46:10,390

the problem I'll make it very like just

1064
00:46:15,089 --> 00:46:12,430
on a very simplified level it was this

1065
00:46:18,180 --> 00:46:15,099
does every mathematical statement have a

1066
00:46:20,069 --> 00:46:18,190
verifiable answer so let's say let's

1067
00:46:23,430 --> 00:46:20,079
take a super simple statement 3 plus 3

1068
00:46:25,499 --> 00:46:23,440
equals 6 I I can either it's either true

1069
00:46:27,450 --> 00:46:25,509
or its false right that statement so I

1070
00:46:29,819 --> 00:46:27,460
can verify if it's true or false if I

1071
00:46:32,069 --> 00:46:29,829
say 3 plus 3 is 7 I can verify if it's

1072
00:46:34,499 --> 00:46:32,079
true or false so the question is can I

1073
00:46:36,809 --> 00:46:34,509
verify if every answer if every mouth

1074
00:46:38,989 --> 00:46:36,819
Michael statement can I verify if all of

1075
00:46:41,279 --> 00:46:38,999
them were true or false and

1076
00:46:44,519 --> 00:46:41,289
mathematicians back then were expecting

1077
00:46:46,890 --> 00:46:44,529
the answer to be yes but he said in any

1078
00:46:48,690 --> 00:46:46,900
prove that it's actually impossible to

1079
00:46:51,299 --> 00:46:48,700
know the answer to every math question

1080
00:46:53,549 --> 00:46:51,309
to prove whether your answer is correct

1081
00:46:55,289 --> 00:46:53,559
so what that meant for a lot of

1082
00:46:57,809 --> 00:46:55,299
mathematicians back in the day was their

1083
00:47:00,089 --> 00:46:57,819
careers were really because it was hey

1084
00:47:01,950 --> 00:47:00,099
it was based on the idea that they would

1085
00:47:04,079 --> 00:47:01,960
go out and prove everything and now you

1086
00:47:06,450 --> 00:47:04,089
have Kurt gödel showing you that it's

1087
00:47:10,289 --> 00:47:06,460
literally impossible so people actually

1088
00:47:12,630 --> 00:47:10,299

went into depression after that but but

1089
00:47:14,099 --> 00:47:12,640
yeah so that's why I think it's safe to

1090
00:47:18,059 --> 00:47:14,109
say that there's probably no unification

1091
00:47:20,279 --> 00:47:18,069
yeah there was a lot of depression from

1092
00:47:23,789 --> 00:47:20,289
scientists during certain eras I

1093
00:47:25,620 --> 00:47:23,799
remember reading about that that it just

1094
00:47:28,200 --> 00:47:25,630
really disturbed them when they started

1095
00:47:31,769 --> 00:47:28,210
to think too much about certain theories

1096
00:47:34,099 --> 00:47:31,779
and it caused a lot of great mental

1097
00:47:37,289 --> 00:47:34,109
distress to some of these scientists or

1098
00:47:39,569 --> 00:47:37,299
folks deeply involved in science who are

1099
00:47:42,150 --> 00:47:39,579
well known I also had another question

1100
00:47:44,729 --> 00:47:42,160
for you and that is the phenomenon of

1101
00:47:49,259 --> 00:47:44,739
chaos does that present issues regarding

1102
00:47:52,219 --> 00:47:49,269
quantum physics it does in the sense

1103
00:47:55,170 --> 00:47:52,229
that all of our systems are inherently

1104
00:47:57,310 --> 00:47:55,180
stochastic and chaotic when it comes to

1105
00:47:59,140 --> 00:47:57,320
quantum mechanics we have no

1106
00:48:01,060 --> 00:47:59,150
for example let's say you have an

1107
00:48:03,580 --> 00:48:01,070
electron and you want to predict whether

1108
00:48:06,520 --> 00:48:03,590
you're going to measure its property a

1109
00:48:08,650 --> 00:48:06,530
spin-up or spin-down we can tell you

1110
00:48:11,100 --> 00:48:08,660
with the jitter mystically we can tell

1111
00:48:14,230 --> 00:48:11,110
you that the probability will be 50%

1112
00:48:17,020 --> 00:48:14,240
that'll be up 30% that'll be down but we

1113
00:48:18,670 --> 00:48:17,030

can never ever predict whether it will

1114
00:48:20,800 --> 00:48:18,680
be up or whether it'll be down for sure

1115
00:48:22,930 --> 00:48:20,810
there's no model that we've ever come

1116
00:48:25,150 --> 00:48:22,940
out with that lets you do that and so

1117
00:48:26,770 --> 00:48:25,160
what that means is that that's inherent

1118
00:48:28,570 --> 00:48:26,780
randomness right that's an inherent

1119
00:48:31,720 --> 00:48:28,580
randomness property of the universe

1120
00:48:36,430 --> 00:48:31,730
which to me is chaotic it's a not a

1121
00:48:37,870 --> 00:48:36,440
deterministic system at all okay again

1122
00:48:44,220 --> 00:48:37,880
jumping around do you think it's

1123
00:48:49,060 --> 00:48:44,230
possible to attain cloaking technology

1124
00:48:51,070 --> 00:48:49,070
100% okay why because all it requires is

1125
00:48:53,080 --> 00:48:51,080
a negative refractive index currently

1126
00:48:57,460 --> 00:48:53,090
all of our materials have a positive

1127
00:48:59,770 --> 00:48:57,470
refractive index and they I guess the

1128
00:49:03,640 --> 00:48:59,780
thing that's stopping us is advancements

1129
00:49:05,620 --> 00:49:03,650
in material science so that to me is an

1130
00:49:07,780 --> 00:49:05,630
engineering problem it's inevitable

1131
00:49:10,210 --> 00:49:07,790
somebody will solve it eventually what

1132
00:49:12,190 --> 00:49:10,220
that means basically a cloaking

1133
00:49:14,860 --> 00:49:12,200
technology some of what that means is

1134
00:49:17,980 --> 00:49:14,870
that it would not be radar visible that

1135
00:49:19,900 --> 00:49:17,990
correct so when I say cloaking I mean

1136
00:49:22,690 --> 00:49:19,910
yeah beyond just red or visible I mean

1137
00:49:25,540 --> 00:49:22,700
invisible to the naked eye got it okay

1138
00:49:28,240 --> 00:49:25,550

and then also wanted to ask you about

1139
00:49:31,060 --> 00:49:28,250
hyper I'm basically asking you a little

1140
00:49:34,540 --> 00:49:31,070
bit about the five observables that we

1141
00:49:36,160 --> 00:49:34,550
mentioned earlier okay I wanted to ask

1142
00:49:38,500 --> 00:49:36,170
you a little bit about hypersonic

1143
00:49:40,420 --> 00:49:38,510
velocities without signatures if an

1144
00:49:42,910 --> 00:49:40,430
aircraft travels faster than the speed

1145
00:49:45,460 --> 00:49:42,920
of sound it typically leaves signatures

1146
00:49:47,260 --> 00:49:45,470
like few per trills and sonic booms many

1147
00:49:48,970 --> 00:49:47,270
UFO accounts note the lack of such

1148
00:49:53,530 --> 00:49:48,980
evidence I'm reading that by the way

1149
00:49:55,810 --> 00:49:53,540
from the third five observables that Lua

1150
00:49:58,300 --> 00:49:55,820
Elizondo I believe mentioned do you have

1151
00:50:01,540 --> 00:49:58,310
any thoughts on hypersonic velocities

1152
00:50:03,820 --> 00:50:01,550
without signatures yes to me that's the

1153
00:50:06,300 --> 00:50:03,830
one that's great one of the observables

1154
00:50:09,820 --> 00:50:06,310
that definitely scream that it's not

1155
00:50:10,990 --> 00:50:09,830
like probably not human technology it's

1156
00:50:12,940 --> 00:50:11,000
not some

1157
00:50:15,790 --> 00:50:12,950
think that anybody on this planet has

1158
00:50:18,640 --> 00:50:15,800
figured out because like look you have a

1159
00:50:20,740 --> 00:50:18,650
body that's 50 feet in diameter or sorry

1160
00:50:23,110 --> 00:50:20,750
length and it's moving through our

1161
00:50:25,510 --> 00:50:23,120
atmosphere without disturbing the air

1162
00:50:27,430 --> 00:50:25,520
such that it creates a sonic boom

1163
00:50:29,470 --> 00:50:27,440

there's only two ways that it could be

1164
00:50:32,020 --> 00:50:29,480
doing that one it has extremely it's

1165
00:50:34,690 --> 00:50:32,030
managing it's certain it has a very

1166
00:50:39,040 --> 00:50:34,700
well-managed surface interface so it

1167
00:50:40,480 --> 00:50:39,050
somehow is able to dampen the effect

1168
00:50:42,990 --> 00:50:40,490
that it has on the environment around

1169
00:50:45,250 --> 00:50:43,000
itself and that requires a huge

1170
00:50:47,440 --> 00:50:45,260
advancement in material science because

1171
00:50:49,960 --> 00:50:47,450
right now the strongest materials we can

1172
00:50:51,760 --> 00:50:49,970
come up with would still dissonant even

1173
00:50:53,800 --> 00:50:51,770
if you made a craft out of it it would

1174
00:50:57,460 --> 00:50:53,810
disintegrate it at the velocities that

1175
00:51:00,040 --> 00:50:57,470
we're seeing so and the g-forces that

1176
00:51:03,160 --> 00:51:00,050
we're seeing specifically so for

1177
00:51:05,680 --> 00:51:03,170
something to move silently I it's almost

1178
00:51:07,720 --> 00:51:05,690
I almost as if they're not moving

1179
00:51:10,120 --> 00:51:07,730
through our atmosphere in any way we

1180
00:51:14,290 --> 00:51:10,130
thought was ever possible and according

1181
00:51:16,450 --> 00:51:14,300
to any physicist so but but so up going

1182
00:51:18,910 --> 00:51:16,460
along that thought process and other

1183
00:51:21,220 --> 00:51:18,920
thought processes let's just pretend you

1184
00:51:23,830 --> 00:51:21,230
and I are standing in the middle of the

1185
00:51:26,530 --> 00:51:23,840
desert we look up in the sky and there

1186
00:51:31,360 --> 00:51:26,540
is an anomalous object that seems to be

1187
00:51:34,390 --> 00:51:31,370
traversing the sky at some very ungodly

1188
00:51:36,700 --> 00:51:34,400

speed a very fast speed that is

1189
00:51:39,640 --> 00:51:36,710
obviously not a craft that we have

1190
00:51:41,610 --> 00:51:39,650
meaning the kind of technology our first

1191
00:51:45,490 --> 00:51:41,620
of all governments are capable of having

1192
00:51:50,200 --> 00:51:45,500
but that still does not break the laws

1193
00:51:52,780 --> 00:51:50,210
of physics is that correct if are you

1194
00:51:54,490 --> 00:51:52,790
hearing a sound or it really depends

1195
00:51:58,960 --> 00:51:54,500
actually it depends on what the object

1196
00:52:02,050 --> 00:51:58,970
looks like visually it could are we

1197
00:52:05,050 --> 00:52:02,060
assuming that it's truly anomalous in

1198
00:52:07,060 --> 00:52:05,060
your experiment right well no I mean

1199
00:52:09,870 --> 00:52:07,070
these are all good questions I guess

1200
00:52:13,270 --> 00:52:09,880
what I'm asking is is it possible that

1201
00:52:16,000 --> 00:52:13,280
the ET craft that could be observed by

1202
00:52:19,720 --> 00:52:16,010
folks around the world are defying the

1203
00:52:23,590 --> 00:52:19,730
laws of physics or defying the laws of

1204
00:52:24,790 --> 00:52:23,600
physics yeah they would be they are

1205
00:52:26,740 --> 00:52:24,800
defying our

1206
00:52:29,140 --> 00:52:26,750
understanding physics which just means

1207
00:52:30,460 --> 00:52:29,150
that there's definitely the universe

1208
00:52:32,980 --> 00:52:30,470
just doesn't operate the way we thought

1209
00:52:35,890 --> 00:52:32,990
it does and they just knew they know the

1210
00:52:38,770 --> 00:52:35,900
rules better that's fascinating and you

1211
00:52:40,180 --> 00:52:38,780
know I just wish we knew more about that

1212
00:52:42,520 --> 00:52:40,190
I know that's kind of an obvious thing

1213
00:52:44,460 --> 00:52:42,530

to say but I'm certain that you probably

1214
00:52:47,920 --> 00:52:44,470
you know think about that often

1215
00:52:50,050 --> 00:52:47,930
regarding how there's possible et

1216
00:52:54,580 --> 00:52:50,060
technology out there that's so advanced

1217
00:52:57,310 --> 00:52:54,590
that it defies our understanding of the

1218
00:52:59,650 --> 00:52:57,320
laws of physics in other words they

1219
00:53:01,930 --> 00:52:59,660
understand laws of physics in such an

1220
00:53:04,810 --> 00:53:01,940
advanced state we actually don't have

1221
00:53:08,680 --> 00:53:04,820
any knowledge base on that do you agree

1222
00:53:12,730 --> 00:53:08,690
with that not necessarily I think that

1223
00:53:15,040 --> 00:53:12,740
we have we're not that we are far away

1224
00:53:17,710 --> 00:53:15,050
we're not that far away so in the sense

1225
00:53:19,180 --> 00:53:17,720
that like let's let's rewind 200 years

1226
00:53:21,310 --> 00:53:19,190
ago where we didn't even know that the

1227
00:53:23,410 --> 00:53:21,320
electromagnetic spectrum existed and

1228
00:53:25,570 --> 00:53:23,420
these were just invisible waves at waves

1229
00:53:28,390 --> 00:53:25,580
that nobody believed really were there

1230
00:53:30,070 --> 00:53:28,400
so so we've come a long way since then

1231
00:53:33,370 --> 00:53:30,080
we the fact that we can even have this

1232
00:53:34,930 --> 00:53:33,380
conversation where I'm like where people

1233
00:53:36,190 --> 00:53:34,940
like Eric Davis exists right we're

1234
00:53:38,170 --> 00:53:36,200
considering warp drives we're

1235
00:53:39,790 --> 00:53:38,180
considering that okay maybe it's a meta

1236
00:53:41,530 --> 00:53:39,800
material okay oh it turned invisible

1237
00:53:43,510 --> 00:53:41,540
maybe it's using a negative refractive

1238
00:53:45,850 --> 00:53:43,520

index maybe is doing feel a

1239
00:53:48,160 --> 00:53:45,860
nullification or some military Pepa dick

1240
00:53:51,100 --> 00:53:48,170
so we yeah we're a lot better off than

1241
00:53:52,960 --> 00:53:51,110
you might think okay I wanted to ask you

1242
00:53:55,510 --> 00:53:52,970
a little bit about one of the five

1243
00:53:58,510 --> 00:53:55,520
observables again and that is trans

1244
00:54:00,580 --> 00:53:58,520
medium travel I'm gonna read it some you

1245
00:54:02,770 --> 00:54:00,590
if he have been seen moving easily in

1246
00:54:04,450 --> 00:54:02,780
and between different environments such

1247
00:54:07,120 --> 00:54:04,460
as space the Earth's atmosphere and even

1248
00:54:09,160 --> 00:54:07,130
water and the nimitz incident witnesses

1249
00:54:11,590 --> 00:54:09,170
described a UFO hovering over a churning

1250
00:54:13,420 --> 00:54:11,600
disturbance just underneath the oceans

1251
00:54:14,950 --> 00:54:13,430
otherwise calm surface leading to

1252
00:54:17,560 --> 00:54:14,960
speculation that another craft had

1253
00:54:19,240 --> 00:54:17,570
entered the water moving along here it

1254
00:54:21,250 --> 00:54:19,250
just says no one has yet gotten close to

1255
00:54:23,440 --> 00:54:21,260
crafts at display these traits so their

1256
00:54:25,150 --> 00:54:23,450
origins are still unknown what I was

1257
00:54:27,640 --> 00:54:25,160
gonna ask you is do you think that this

1258
00:54:29,950 --> 00:54:27,650
is a super top-secret US defense project

1259
00:54:32,320 --> 00:54:29,960
as it's listed right there in the

1260
00:54:34,560 --> 00:54:32,330
article I'm reading or do you think that

1261
00:54:37,240 --> 00:54:34,570
it's almost always et technology

1262
00:54:38,450 --> 00:54:37,250
responsible for that kind of behavior

1263
00:54:41,600 --> 00:54:38,460

the name

1264
00:54:44,050 --> 00:54:41,610
oh well regarding trance medium travel

1265
00:54:46,640 --> 00:54:44,060
how there's UAP that have been able to

1266
00:54:49,310 --> 00:54:46,650
traverse the skies and display trance

1267
00:54:50,930 --> 00:54:49,320
that we are not used to seeing regarding

1268
00:54:54,140 --> 00:54:50,940
our craft do you think it's possible

1269
00:54:56,090 --> 00:54:54,150
that is always ET craft that are

1270
00:54:59,810 --> 00:54:56,100
responsible for being able to traverse

1271
00:55:02,300 --> 00:54:59,820
the skies at certain speeds and certain

1272
00:55:05,000 --> 00:55:02,310
behaviors that are known craft do not

1273
00:55:08,270 --> 00:55:05,010
are not capable of or are they super

1274
00:55:09,710 --> 00:55:08,280
top-secret US defense projects it would

1275
00:55:11,240 --> 00:55:09,720
definitely depend on the space that

1276
00:55:13,040 --> 00:55:11,250
we're observing whether you're observing

1277
00:55:16,700 --> 00:55:13,050
a bernoulli bubble whether there's an

1278
00:55:18,590 --> 00:55:16,710
impact that you would expect to have or

1279
00:55:21,260 --> 00:55:18,600
see happen when you have a body going

1280
00:55:24,470 --> 00:55:21,270
into a body of another body of water so

1281
00:55:25,910 --> 00:55:24,480
let's say for example I've heard I can't

1282
00:55:27,800 --> 00:55:25,920
remember which case but I've heard of

1283
00:55:31,010 --> 00:55:27,810
instances where there were a submerged

1284
00:55:32,840 --> 00:55:31,020
UFO or so a USO but there was no great

1285
00:55:34,070 --> 00:55:32,850
bubble and you would expect a bernoulli

1286
00:55:37,160 --> 00:55:34,080
bubble with something submerged under

1287
00:55:39,470 --> 00:55:37,170
water so things like that or say I've

1288
00:55:41,300 --> 00:55:39,480

heard that they might not slow down when

1289
00:55:43,730 --> 00:55:41,310
they go into water now that we don't

1290
00:55:46,310 --> 00:55:43,740
have that is that is engineering that is

1291
00:55:49,070 --> 00:55:46,320
far far beyond our capabilities we have

1292
00:55:51,440 --> 00:55:49,080
drones I've read about I forget their

1293
00:55:53,390 --> 00:55:51,450
names that are capable of basic

1294
00:55:56,000 --> 00:55:53,400
transmedia travel which like they can go

1295
00:55:57,860 --> 00:55:56,010
from flying into the water but they

1296
00:55:59,960 --> 00:55:57,870
can't get back out like stuff like that

1297
00:56:02,180 --> 00:55:59,970
or they slow down miserably or their top

1298
00:56:04,670 --> 00:56:02,190
speed is like 50 miles per hour or some

1299
00:56:09,350 --> 00:56:04,680
joke it's not nothing close to what a

1300
00:56:11,870 --> 00:56:09,360
true quote UAP you with yeah uso would

1301
00:56:14,720 --> 00:56:11,880
do I understand so that's definitely

1302
00:56:17,420 --> 00:56:14,730
that in my opinion regarding

1303
00:56:21,650 --> 00:56:17,430
anti-gravity technology what are your

1304
00:56:24,440 --> 00:56:21,660
thoughts on that in general I'm hoping

1305
00:56:28,130 --> 00:56:24,450
that we can produce the amount of energy

1306
00:56:31,640 --> 00:56:28,140
required for anti-gravity technologies

1307
00:56:33,830 --> 00:56:31,650
I'm assuming that it is possible but

1308
00:56:37,010 --> 00:56:33,840
what I'm skeptical about is if we have

1309
00:56:39,410 --> 00:56:37,020
enough energy dense fuel sources for

1310
00:56:41,480 --> 00:56:39,420
that but that's something that I'm

1311
00:56:43,700 --> 00:56:41,490
personally depending on like having

1312
00:56:46,250 --> 00:56:43,710
anti-gravity because that will unlock

1313
00:56:48,170 --> 00:56:46,260

interstellar travel it will unlock and I

1314
00:56:50,270 --> 00:56:48,180
think solve up many of our material

1315
00:56:51,710 --> 00:56:50,280
resources we're going to have more

1316
00:56:55,450 --> 00:56:51,720
unique problems too

1317
00:56:57,260 --> 00:56:55,460
about which it's about time right so

1318
00:56:58,849 --> 00:56:57,270
anti-gravity which I'm just gonna read

1319
00:57:01,040 --> 00:56:58,859
for our listeners can be defined as the

1320
00:57:02,960 --> 00:57:01,050
science or the physics that can allow

1321
00:57:05,810 --> 00:57:02,970
the overcoming or cancellation of the

1322
00:57:08,390 --> 00:57:05,820
Earth's gravitational field was going to

1323
00:57:09,470 --> 00:57:08,400
ask you deep have we ever have we gotten

1324
00:57:12,230 --> 00:57:09,480
to the point where we completely

1325
00:57:15,290 --> 00:57:12,240
understand gravity gravity not even

1326
00:57:17,510 --> 00:57:15,300
close no why is that so

1327
00:57:19,010 --> 00:57:17,520
it goes back to the unification theory

1328
00:57:21,349 --> 00:57:19,020
right so we didn't have general

1329
00:57:22,970 --> 00:57:21,359
relativity which describes the macro

1330
00:57:26,000 --> 00:57:22,980
world that big world the world of

1331
00:57:27,589 --> 00:57:26,010
planets world of star systems and that's

1332
00:57:30,580 --> 00:57:27,599
where gravity comes to play but then we

1333
00:57:34,250 --> 00:57:30,590
have quantum mechanics which explains

1334
00:57:36,200 --> 00:57:34,260
orbitals and electrons and atoms but

1335
00:57:38,690 --> 00:57:36,210
when you mix the two together you get

1336
00:57:40,609 --> 00:57:38,700
very nonsensical results so quantum

1337
00:57:43,760 --> 00:57:40,619
mechanics can't describe the motion of

1338
00:57:45,830 --> 00:57:43,770

planets very well and general activity

1339
00:57:48,410 --> 00:57:45,840
which is where gravity comes in can't

1340
00:57:51,500 --> 00:57:48,420
describe quantum mechanics at all yet we

1341
00:57:54,080 --> 00:57:51,510
know that all for all these forces are

1342
00:57:55,370 --> 00:57:54,090
at play so it means that we don't

1343
00:57:56,750 --> 00:57:55,380
understand quantum mechanics

1344
00:58:03,560 --> 00:57:56,760
it means we also don't understand

1345
00:58:03,859 --> 00:58:03,570
gravity understood Frank are you still

1346
00:58:06,200 --> 00:58:03,869
there

1347
00:58:09,230 --> 00:58:06,210
yeah I'm still here I was listening in

1348
00:58:10,609 --> 00:58:09,240
just there listening in and yeah I mean

1349
00:58:15,320 --> 00:58:10,619
yeah that's really about all I've got

1350
00:58:17,240 --> 00:58:15,330
okay uh go and keep going well deep it's

1351
00:58:19,790 --> 00:58:17,250
just so wonderful being able to talk to

1352
00:58:21,589 --> 00:58:19,800
you about these topics did you have any

1353
00:58:23,720 --> 00:58:21,599
more things that you wanted to cover

1354
00:58:27,200 --> 00:58:23,730
just in general just so we can go ahead

1355
00:58:29,839 --> 00:58:27,210
and cover those topics um I think I'm

1356
00:58:31,520 --> 00:58:29,849
good on my end this is great great yeah

1357
00:58:33,079 --> 00:58:31,530
I mean now we got this done in an hour

1358
00:58:35,810 --> 00:58:33,089
and that's so what we're shooting for

1359
00:58:38,480 --> 00:58:35,820
and I had a blast deep thanks for coming

1360
00:58:41,359 --> 00:58:38,490
on you should get more of these with us

1361
00:58:43,970 --> 00:58:41,369
or with that with anybody else will you

1362
00:58:46,730 --> 00:58:43,980
know make some time for you but I had a

1363
00:58:49,579 --> 00:58:46,740

blast thanks for coming on it was great

1364
00:58:51,470 --> 00:58:49,589
talking about these fascinating subjects

1365
00:58:53,750 --> 00:58:51,480
and the materials again that we'll see a

1366
00:58:55,820 --> 00:58:53,760
year any back-channel word on that when

1367
00:58:57,700 --> 00:58:55,830
we might be hearing more from whatever

1368
00:58:59,140 --> 00:58:57,710
team is working on whatever they've got

1369
00:59:02,599 --> 00:58:59,150
mm-hmm

1370
00:59:05,240 --> 00:59:02,609
yeah I think we should hear stuff you

1371
00:59:07,130 --> 00:59:05,250
know this year first okay this year

1372
00:59:10,040 --> 00:59:07,140
right it's only six months it's not bad

1373
00:59:13,190 --> 00:59:10,050
at all not at all I I do have a question

1374
00:59:16,970 --> 00:59:13,200
for deep and that is after everything

1375
00:59:19,460 --> 00:59:16,980
that you've learned in life including

1376
00:59:20,300 --> 00:59:19,470
not just academically but just in life

1377
00:59:22,790 --> 00:59:20,310
in general

1378
00:59:25,910 --> 00:59:22,800
where does your take away so far what

1379
00:59:29,990 --> 00:59:25,920
kind of lessons have you learned my

1380
00:59:33,650 --> 00:59:30,000
biggest takeaway is that life is really

1381
00:59:36,470 --> 00:59:33,660
really weird I still have no idea so

1382
00:59:40,190 --> 00:59:36,480
don't wait don't take things too

1383
00:59:43,040 --> 00:59:40,200
seriously understood understood

1384
00:59:45,820 --> 00:59:43,050
and then just another question about

1385
00:59:49,670 --> 00:59:45,830
quantum physics and do you think that

1386
00:59:51,740 --> 00:59:49,680
the wacky world of quantum physics do

1387
00:59:55,190 --> 00:59:51,750
you think well that that will always be

1388
00:59:57,860 --> 00:59:55,200

in the mode of discovery or will we ever

1389
00:59:59,780 --> 00:59:57,870
master it regarding our knowledge based

1390
01:00:02,540 --> 00:59:59,790
on it will we ever know it in its

1391
01:00:05,360 --> 01:00:02,550
entirety or will it always be a mystery

1392
01:00:07,460 --> 01:00:05,370
we will definitely move forward from

1393
01:00:09,800 --> 01:00:07,470
quantum mechanics those days in my

1394
01:00:11,180 --> 01:00:09,810
opinion are coming to an end absolutely

1395
01:00:14,900 --> 01:00:11,190
no one like community would agree with

1396
01:00:16,220 --> 01:00:14,910
me but I do see it coming - yeah I

1397
01:00:17,960 --> 01:00:16,230
wouldn't know what that's like having

1398
01:00:25,640 --> 01:00:17,970
everybody in your community not agree

1399
01:00:26,780 --> 01:00:25,650
with their Frank I do have some more

1400
01:00:30,890 --> 01:00:26,790
question what I was gonna ask you

1401
01:00:34,060 --> 01:00:30,900
deepest our planet the survivability of

1402
01:00:38,480 --> 01:00:34,070
it do you believe that through science

1403
01:00:43,310 --> 01:00:38,490
the survivability factor goes up yeah

1404
01:00:46,070 --> 01:00:43,320
one it goes up hugely why because you

1405
01:00:48,050 --> 01:00:46,080
need technology to fight in every

1406
01:00:49,940 --> 01:00:48,060
existential universe the universe that's

1407
01:00:51,470 --> 01:00:49,950
constantly trying to kill us the only

1408
01:00:55,550 --> 01:00:51,480
way to solve those problems are

1409
01:00:58,040 --> 01:00:55,560
engineering problems okay and then I had

1410
01:01:00,230 --> 01:00:58,050
a question for you I already asked you

1411
01:01:05,840 --> 01:01:00,240
about proof what does evidence mean to

1412
01:01:10,370 --> 01:01:05,850
you that's a good question so evidence

1413
01:01:15,980 --> 01:01:10,380

to me is unquestionable in its source in

1414
01:01:19,070 --> 01:01:15,990
its implications and its integrity okay

1415
01:01:21,680 --> 01:01:19,080
so the difference between information

1416
01:01:25,190 --> 01:01:21,690
evidence and proof all three different

1417
01:01:27,200 --> 01:01:25,200
things right yep for sure okay so when

1418
01:01:30,260 --> 01:01:27,210
you're studying science and you're

1419
01:01:32,240 --> 01:01:30,270
trying to resolve an issue what is the

1420
01:01:35,600 --> 01:01:32,250
most important thing for you is that

1421
01:01:38,240 --> 01:01:35,610
information evidence or proof it's

1422
01:01:39,710 --> 01:01:38,250
evidence definitely why is that

1423
01:01:41,450 --> 01:01:39,720
because it's like the middle ground

1424
01:01:44,350 --> 01:01:41,460
between proof and information

1425
01:01:47,440 --> 01:01:44,360
information might be false might be true

1426
01:01:53,240 --> 01:01:47,450
evidences evidence and proof is

1427
01:01:55,760 --> 01:01:53,250
sometimes objectives I think and the old

1428
01:01:59,600 --> 01:01:55,770
thoughts the old school of science is

1429
01:02:01,670 --> 01:01:59,610
that slowly turning into is that sort of

1430
01:02:03,560 --> 01:02:01,680
dying aways that turned into a dinosaur

1431
01:02:06,800 --> 01:02:03,570
and there's a new science that is

1432
01:02:07,280 --> 01:02:06,810
cropping up springing from the ground so

1433
01:02:09,920 --> 01:02:07,290
to speak

1434
01:02:11,720 --> 01:02:09,930
are you in that world is that what we

1435
01:02:14,660 --> 01:02:11,730
would be able to categorize you in as

1436
01:02:17,270 --> 01:02:14,670
sort of a new a new person involved in

1437
01:02:19,910 --> 01:02:17,280
new science is that an odd way to put it

1438
01:02:21,650 --> 01:02:19,920

or would that be correct I mean it would

1439
01:02:23,720 --> 01:02:21,660
be as correct as it gets I don't know

1440
01:02:26,210 --> 01:02:23,730
who else is in this club but yes I would

1441
01:02:29,000 --> 01:02:26,220
say so okay and then the other question

1442
01:02:33,080 --> 01:02:29,010
I have for you is why are you interested

1443
01:02:34,880 --> 01:02:33,090
in the world of ET and ET technology how

1444
01:02:36,680 --> 01:02:34,890
did that come about for you is this

1445
01:02:39,200 --> 01:02:36,690
something that you endeavor to find out

1446
01:02:43,250 --> 01:02:39,210
about later in life or is this something

1447
01:02:44,930 --> 01:02:43,260
that you thought about as a child both

1448
01:02:47,300 --> 01:02:44,940
like initially I thought of as a child

1449
01:02:49,280 --> 01:02:47,310
from like ages 10 to 13 I was really

1450
01:02:53,030 --> 01:02:49,290
into this stuff and then I became a

1451
01:02:55,730 --> 01:02:53,040
skeptic from like 13 to 23 and then my

1452
01:02:59,540 --> 01:02:55,740
interest got peaked again and since then

1453
01:03:01,340 --> 01:02:59,550
I do believe from my own research and

1454
01:03:04,190 --> 01:03:01,350
experiences that there is something to

1455
01:03:06,950 --> 01:03:04,200
this and just the idea of an

1456
01:03:10,040 --> 01:03:06,960
intelligence that's more than us that's

1457
01:03:11,960 --> 01:03:10,050
extremely interesting interactive I have

1458
01:03:16,150 --> 01:03:11,970
to learn everything about it and what it

1459
01:03:19,280 --> 01:03:16,160
knows also dr. jacques ballet who had

1460
01:03:21,110 --> 01:03:19,290
created the extra-terrestrial hypothesis

1461
01:03:22,430 --> 01:03:21,120
known as ETH which I'll go ahead and

1462
01:03:24,560 --> 01:03:22,440
read for our listeners which proposes

1463
01:03:26,300 --> 01:03:24,570

that someone identified flying objects

1464
01:03:28,550 --> 01:03:26,310
our best explained as being physical

1465
01:03:30,710 --> 01:03:28,560
spacecraft occupied by extraterrestrial

1466
01:03:32,650 --> 01:03:30,720
life or non-human aliens are not

1467
01:03:34,420 --> 01:03:32,660
occupied alien

1468
01:03:35,980 --> 01:03:34,430
from other planets visiting earth when

1469
01:03:36,640 --> 01:03:35,990
did you read about that when did you

1470
01:03:40,120 --> 01:03:36,650
learn about that

1471
01:03:42,310 --> 01:03:40,130
ETH hypothesis I learnt about it like

1472
01:03:45,250 --> 01:03:42,320
two months ago someone tweeted at me

1473
01:03:49,090 --> 01:03:45,260
because they wanted my thoughts on why

1474
01:03:50,560 --> 01:03:49,100
the distribution was centered around 3

1475
01:03:52,780 --> 01:03:50,570
a.m. or something like that of

1476
01:03:53,460 --> 01:03:52,790
paranormal visitation and it came from

1477
01:03:57,400 --> 01:03:53,470
that paper

1478
01:03:59,530 --> 01:03:57,410
mm-hmm and did you learn about jacque's

1479
01:04:00,370 --> 01:03:59,540
Valley from that point or was it earlier

1480
01:04:02,650 --> 01:04:00,380
in your life

1481
01:04:06,670 --> 01:04:02,660
I knew but luckily like six months ago

1482
01:04:09,670 --> 01:04:06,680
ah so who are some of the people in the

1483
01:04:14,170 --> 01:04:09,680
world of ufology is that you actually

1484
01:04:18,100 --> 01:04:14,180
admire aside from dr. jacques ballet I

1485
01:04:22,620 --> 01:04:18,110
love Gary Nolan I obviously like the TTS

1486
01:04:25,420 --> 01:04:22,630
a team those guys are really cool and I

1487
01:04:27,310 --> 01:04:25,430
think a lot of the people I call on

1488
01:04:30,100 --> 01:04:27,320

Twitter basically anyone who is

1489
01:04:33,310 --> 01:04:30,110
considered a ufologist and no one likes

1490
01:04:36,640 --> 01:04:33,320
a UFO Jesus I love him right

1491
01:04:39,640 --> 01:04:36,650
Brian's Apple yeah your channel as well

1492
01:04:41,230 --> 01:04:39,650
as extremely in four minutes I'm sure

1493
01:04:42,700 --> 01:04:41,240
I'm missing a couple other people but

1494
01:04:45,070 --> 01:04:42,710
yeah there's a lot

1495
01:04:47,200 --> 01:04:45,080
I just want to correct myself I said dr.

1496
01:04:49,810 --> 01:04:47,210
Cox probably I meant to say at the

1497
01:04:51,370 --> 01:04:49,820
scientist Jacques Vallee who is actually

1498
01:04:54,040 --> 01:04:51,380
a computer scientist a venture

1499
01:04:59,010 --> 01:04:54,050
capitalists known as ufologists and also

1500
01:05:04,390 --> 01:04:59,020
an astronomer how did you feel about dr.

1501
01:05:07,450 --> 01:05:04,400
about dr. Allen Hynek so dr. Allen Hynek

1502
01:05:09,730 --> 01:05:07,460
was a really interesting character I

1503
01:05:12,070 --> 01:05:09,740
wish that he was a little bit more

1504
01:05:15,400 --> 01:05:12,080
honest in his career but I don't blame

1505
01:05:18,400 --> 01:05:15,410
him given the position that he was in

1506
01:05:22,180 --> 01:05:18,410
but I also really liked that he stuck to

1507
01:05:24,790 --> 01:05:22,190
his gun regarding the ETH I understood

1508
01:05:26,230 --> 01:05:24,800
yes okay well I thank you very much for

1509
01:05:28,090 --> 01:05:26,240
your time tonight it's been such a

1510
01:05:30,580 --> 01:05:28,100
fascinating discussion being able to

1511
01:05:32,710 --> 01:05:30,590
talk with you about such a variety of

1512
01:05:34,390 --> 01:05:32,720
topics and I certainly look forward to

1513
01:05:37,390 --> 01:05:34,400

having the honor and privilege of

1514
01:05:39,310 --> 01:05:37,400
interviewing you again um likewise

1515
01:05:41,500 --> 01:05:39,320
thanks for a fascinating discussion guys

1516
01:05:44,350 --> 01:05:41,510
yes absolutely deep thanks a lot I

1517
01:05:46,020 --> 01:05:44,360
appreciate it and I'm gonna yep we're

1518
01:05:48,210 --> 01:05:46,030
gonna wrap things up

1519
01:05:50,280 --> 01:05:48,220
and I think we're gonna be back over the

1520
01:05:54,000 --> 01:05:50,290
weekend and we'll have something going

1521
01:05:55,890 --> 01:05:54,010
then and any news that comes up we can

1522
01:05:57,330 --> 01:05:55,900
always do a quick and dirty show with

1523
01:06:00,840 --> 01:05:57,340
some significant updates that we're

1524
01:06:02,700 --> 01:06:00,850
following those nimitz fakes and we've

1525
01:06:04,830 --> 01:06:02,710
got some more stuff in the can and some

1526
01:06:07,620 --> 01:06:04,840
more stuff might be ready to go so you

1527
01:06:10,320 --> 01:06:07,630
never know with that and that's about it