

#542

EXTRATERRESTRIAL INTELLIGENCE



**JENSINE
ANDRESEN**



**MASSIMO
TEODORANI**

1
00:00:36,049 --> 00:00:03,830

[Music]

2
00:00:40,250 --> 00:00:38,030

hello and welcome to the show I'm Martin

3
00:00:42,530 --> 00:00:40,260

Willis your host and this is a

4
00:00:46,190 --> 00:00:42,540

pre-recorded show tonight I am going to

5
00:00:48,470 --> 00:00:46,200

be somewhere warm and out of touch with

6
00:00:52,010 --> 00:00:48,480

the internet so uh

7
00:00:54,889 --> 00:00:52,020

um hopefully I will be enjoying myself

8
00:00:57,470 --> 00:00:54,899

while this airs and uh thank you all for

9
00:01:02,330 --> 00:00:57,480

listening I have some great guests this

10
00:01:03,770 --> 00:01:02,340

evening we have Massimo uh tell durani

11
00:01:08,270 --> 00:01:03,780

um trying to pronounce that the best I

12
00:01:11,090 --> 00:01:08,280

can and also gen scene Andresen and they

13
00:01:14,270 --> 00:01:11,100

have been involved in this book I love

14

00:01:17,090 --> 00:01:14,280

when academics take a look at the UAP

15

00:01:19,550 --> 00:01:17,100

topic and I think in the last you know

16

00:01:23,690 --> 00:01:19,560

three three and a half uh coming up on

17

00:01:27,190 --> 00:01:23,700

is it four years coming up on uh that

18

00:01:29,929 --> 00:01:27,200

um there is more of uh

19

00:01:34,010 --> 00:01:29,939

academics that are are looking at this

20

00:01:35,450 --> 00:01:34,020

topic seriously and not as concerned

21

00:01:38,210 --> 00:01:35,460

um we're going to be talking about that

22

00:01:39,910 --> 00:01:38,220

a lot uh tonight uh with my two guests

23

00:01:44,210 --> 00:01:39,920

I'm going to bring them in right now

24

00:01:47,210 --> 00:01:44,220

welcome Maximo Massimo yes thank you for

25

00:01:49,910 --> 00:01:47,220

having me here thank you and John scene

26

00:01:52,670 --> 00:01:49,920

thank you thank you Martin now you

27

00:01:54,770 --> 00:01:52,680

reached out to me Jensen so I do

28

00:01:56,870 --> 00:01:54,780

appreciate that and

29

00:01:58,130 --> 00:01:56,880

um so I don't know which one of you want

30

00:01:59,810 --> 00:01:58,140

to take this I want to know what the

31

00:02:02,270 --> 00:01:59,820

Genesis of writing this book I'm going

32

00:02:04,609 --> 00:02:02,280

to put this up uh right now what the

33

00:02:07,550 --> 00:02:04,619

Genesis of writing this book was

34

00:02:09,529 --> 00:02:07,560

I I can probably take that one um okay

35

00:02:11,630 --> 00:02:09,539

well I I did reach out to you Martin

36

00:02:14,330 --> 00:02:11,640

because I've been following your podcast

37

00:02:17,690 --> 00:02:14,340

for a long time and I've always enjoyed

38

00:02:20,089 --> 00:02:17,700

it so much I I know you have a great

39

00:02:22,550 --> 00:02:20,099

podcast you're really a very fair

40

00:02:25,790 --> 00:02:22,560

interviewer and

41

00:02:28,010 --> 00:02:25,800

um you've got great guests and so yes

42

00:02:31,490 --> 00:02:28,020

um I I was the one that came up with the

43

00:02:35,690 --> 00:02:31,500

idea I had been working with my

44

00:02:37,930 --> 00:02:35,700

co-editor up to Octavio a John Torres

45

00:02:41,270 --> 00:02:37,940

in a completely different area

46

00:02:44,270 --> 00:02:41,280

astrobiology ethics and he had been

47

00:02:47,089 --> 00:02:44,280

editing a volume in that field and so I

48

00:02:51,050 --> 00:02:47,099

got to know him when that project was

49

00:02:54,170 --> 00:02:51,060

completed I pitched this idea and he

50

00:02:56,809 --> 00:02:54,180

thought it was a great idea and so we

51
00:03:00,290 --> 00:02:56,819
just then started contacting many

52
00:03:01,850 --> 00:03:00,300
different people it was very important

53
00:03:04,910 --> 00:03:01,860
to me that it be an international

54
00:03:07,309 --> 00:03:04,920
project so I wanted as much

55
00:03:10,190 --> 00:03:07,319
representation as I could get from

56
00:03:12,890 --> 00:03:10,200
academics around the world and I also

57
00:03:16,910 --> 00:03:12,900
wanted it to be multi-disciplinary which

58
00:03:19,930 --> 00:03:16,920
is why you see a section on science then

59
00:03:22,790 --> 00:03:19,940
some you know philosophy a little bit of

60
00:03:27,110 --> 00:03:22,800
interdisciplinary or transdisciplinary

61
00:03:30,649 --> 00:03:27,120
research and we even have one chapter

62
00:03:34,369 --> 00:03:30,659
about sort of the you know medical type

63
00:03:36,770 --> 00:03:34,379

side of things so yeah that was it and

64

00:03:37,570 --> 00:03:36,780

Massimo was one of the first people to

65

00:03:41,390 --> 00:03:37,580

accept

66

00:03:43,190 --> 00:03:41,400

so I thank you very much for that and

67

00:03:44,869 --> 00:03:43,200

then after I could tell people that he

68

00:03:47,390 --> 00:03:44,879

was on board then I got a lot more

69

00:03:50,229 --> 00:03:47,400

people coming on board so thank you

70

00:03:53,030 --> 00:03:50,239

Massimo for that thank you yeah

71

00:03:55,309 --> 00:03:53,040

yes and what uh what was your interest

72

00:03:57,589 --> 00:03:55,319

in this topic I know you've written

73

00:03:59,210 --> 00:03:57,599

about it for a number of years so you

74

00:04:00,949 --> 00:03:59,220

must have had some type of fascination

75

00:04:03,710 --> 00:04:00,959

with it in general

76

00:04:05,890 --> 00:04:03,720

yeah uh I have to tell you I've been

77

00:04:09,589 --> 00:04:05,900

reading a lot of

78

00:04:13,850 --> 00:04:09,599

ufological books in my free time and

79

00:04:17,629 --> 00:04:13,860

honestly I I was a board because it was

80

00:04:20,750 --> 00:04:17,639

it was all about stories or something I

81

00:04:25,550 --> 00:04:20,760

wanted to see if we can do more about

82

00:04:28,730 --> 00:04:25,560

that and and if uh as an astronomer I

83

00:04:31,670 --> 00:04:28,740

could apply my methodology and also

84

00:04:35,030 --> 00:04:31,680

sensor instruments to try to get real

85

00:04:38,870 --> 00:04:35,040

data on the phenomenon so already in

86

00:04:43,010 --> 00:04:38,880

1994 uh three years after me and

87

00:04:46,969 --> 00:04:43,020

obtaining my PhD uh I presented the

88

00:04:50,749 --> 00:04:46,979

project of a so-called UFO monitoring

89

00:04:55,450 --> 00:04:50,759

astronomy like UFO monitoring which I

90

00:04:59,660 --> 00:04:55,460

presented in a big Congress in 1994

91

00:05:01,070 --> 00:04:59,670

Justin in Norway where famous

92

00:05:05,270 --> 00:05:01,080

[Music]

93

00:05:09,370 --> 00:05:05,280

phenomena occurring very often so that

94

00:05:11,930 --> 00:05:09,380

was my start from that time on I

95

00:05:16,129 --> 00:05:11,940

organized and participated the two

96

00:05:20,210 --> 00:05:16,139

Expeditions uh using sensors so field

97

00:05:22,129 --> 00:05:20,220

work trying to get the data on this kind

98

00:05:25,129 --> 00:05:22,139

of phenomena because in installing it's

99

00:05:29,090 --> 00:05:25,139

almost like a natural laboratory because

100

00:05:32,150 --> 00:05:29,100

this phenomena occurred very often and

101
00:05:33,850 --> 00:05:32,160
at the same time I was an astronomer at

102
00:05:36,830 --> 00:05:33,860
University Tech to

103
00:05:40,850 --> 00:05:36,840
both Optical astronomy and and radio

104
00:05:46,249 --> 00:05:40,860
astronomy I was also a researcher in the

105
00:05:48,590 --> 00:05:46,259
field of safety and uh I also

106
00:05:51,290 --> 00:05:48,600
did City research

107
00:05:53,390 --> 00:05:51,300
at the same time parallel line for

108
00:05:56,870 --> 00:05:53,400
something like uh

109
00:06:01,610 --> 00:05:56,880
um you know Dr Jackie and Mr Rider that

110
00:06:05,450 --> 00:06:03,350
um so I've heard

111
00:06:07,310 --> 00:06:05,460
um I've heard well

112
00:06:09,710 --> 00:06:07,320
I want to say I guess I would call them

113
00:06:12,350 --> 00:06:09,720

more of uh Skeptics or debunkers either

114

00:06:15,890 --> 00:06:12,360

one of them uh more more of skeptic

115

00:06:18,409 --> 00:06:15,900

Skeptics and and I I like to uh I

116

00:06:22,610 --> 00:06:18,419

appreciate skepticism but I have heard

117

00:06:24,409 --> 00:06:22,620

them say in the past and there's a a

118

00:06:27,409 --> 00:06:24,419

great blog that my friend Alejandro

119

00:06:30,170 --> 00:06:27,419

Rojas did on this where they'll say Well

120

00:06:31,430 --> 00:06:30,180

if you know UFOs are out there and you

121

00:06:33,830 --> 00:06:31,440

know other people are seeing them how

122

00:06:36,950 --> 00:06:33,840

come no astronomers are seeing them well

123

00:06:38,809 --> 00:06:36,960

uh he corrected that by giving all types

124

00:06:42,290 --> 00:06:38,819

of accounts of astronomers and I

125

00:06:44,330 --> 00:06:42,300

personally know uh two of them that had

126
00:06:45,770 --> 00:06:44,340
um you know one of them a big triangle

127
00:06:48,650 --> 00:06:45,780
flew right over his head while he had

128
00:06:50,930 --> 00:06:48,660
his his telescope on his tripod on his

129
00:06:54,529 --> 00:06:50,940
shoulder walking from uh from an event

130
00:06:56,930 --> 00:06:54,539
and then another one um who's who has uh

131
00:06:59,210 --> 00:06:56,940
had an underwater situation which is

132
00:07:01,909 --> 00:06:59,220
really he was on a submarine when there

133
00:07:03,710 --> 00:07:01,919
was something going over 200 knots

134
00:07:05,870 --> 00:07:03,720
um that was seen on radar so I mean very

135
00:07:09,110 --> 00:07:05,880
interesting this was years ago

136
00:07:12,710 --> 00:07:09,120
but anyway I'm going to ask you uh have

137
00:07:14,390 --> 00:07:12,720
you known of other astronomers that have

138
00:07:16,850 --> 00:07:14,400

claimed to have seen

139

00:07:20,749 --> 00:07:16,860

some something

140

00:07:24,290 --> 00:07:20,759

no not personally because I have known

141

00:07:28,010 --> 00:07:24,300

many astronomers in Italy and abroad but

142

00:07:30,350 --> 00:07:28,020

I know of an investigation by an

143

00:07:33,770 --> 00:07:30,360

American astronomer many years ago in

144

00:07:34,909 --> 00:07:33,780

the 50s I think or 60s who investigated

145

00:07:39,790 --> 00:07:34,919

the

146

00:07:43,490 --> 00:07:39,800

astronomers

147

00:07:46,430 --> 00:07:43,500

some prodigies in the sky so it happened

148

00:07:50,270 --> 00:07:46,440

but it happened very rarely and the

149

00:07:54,770 --> 00:07:50,280

reason of that is that we when we use

150

00:07:57,670 --> 00:07:54,780

telescopes we observe a very thin

151

00:08:01,370 --> 00:07:57,680

portion of the sky something like

152

00:08:04,730 --> 00:08:01,380

essentially like a of two or four square

153

00:08:06,890 --> 00:08:04,740

degrees so the probability that we see

154

00:08:10,550 --> 00:08:06,900

something that we didn't want to search

155

00:08:13,670 --> 00:08:10,560

is extremely low so it's a just a

156

00:08:16,010 --> 00:08:13,680

selection effect so the reason why

157

00:08:19,129 --> 00:08:16,020

astronomer didn't see is that an

158

00:08:21,529 --> 00:08:19,139

astronomer doesn't and go outside and

159

00:08:26,029 --> 00:08:21,539

look like a fish eye all over the sky

160

00:08:29,689 --> 00:08:26,039

but only a small point where there is a

161

00:08:32,810 --> 00:08:29,699

target that we want to observe I mean

162

00:08:35,990 --> 00:08:32,820

Stars galaxies or something else

163

00:08:39,310 --> 00:08:36,000

I was uh go ahead if I could jump in

164

00:08:42,230 --> 00:08:39,320

there is a there is a very famous

165

00:08:45,889 --> 00:08:42,240

Emeritus Stanford University Emeritus

166

00:08:48,290 --> 00:08:45,899

Professor Peter sturrick and he worked

167

00:08:50,449 --> 00:08:48,300

in astrophysics and he was the founder

168

00:08:55,070 --> 00:08:50,459

of the journal for scientific

169

00:08:56,930 --> 00:08:55,080

exploration or jse and back in 1994 he

170

00:09:00,710 --> 00:08:56,940

did a three-part

171

00:09:03,110 --> 00:09:00,720

study and research paper on specifically

172

00:09:05,449 --> 00:09:03,120

you know this question of what's going

173

00:09:09,110 --> 00:09:05,459

on with astronomers and are they seeing

174

00:09:11,930 --> 00:09:09,120

UFOs and he himself had had a sighting

175

00:09:12,949 --> 00:09:11,940

so he was extremely interested in the

176

00:09:16,190 --> 00:09:12,959

topic

177

00:09:18,230 --> 00:09:16,200

um because you know being as we now call

178

00:09:21,050 --> 00:09:18,240

them trained observers but in this case

179

00:09:24,590 --> 00:09:21,060

not a military trained Observer but but

180

00:09:27,650 --> 00:09:24,600

a scientific one he was convinced that

181

00:09:29,990 --> 00:09:27,660

what he saw was quite unusual and so

182

00:09:34,130 --> 00:09:30,000

that's a that's a good resource that

183

00:09:36,070 --> 00:09:34,140

three-part jse study from 1994 Peter

184

00:09:38,449 --> 00:09:36,080

sturrick

185

00:09:40,430 --> 00:09:38,459

s-t-u-r-r-o-c-k I have heard the name

186

00:09:43,430 --> 00:09:40,440

and I don't know exactly why but I have

187

00:09:45,410 --> 00:09:43,440

heard that name it must pertain to this

188

00:09:48,290 --> 00:09:45,420

in particular I would think

189

00:09:51,050 --> 00:09:48,300

um so I was in an observatory at a

190

00:09:53,870 --> 00:09:51,060

college uh several years ago and I was

191

00:09:56,570 --> 00:09:53,880

looking at Andromeda and uh all of a

192

00:09:58,850 --> 00:09:56,580

sudden this bright flash was so bright I

193

00:10:00,530 --> 00:09:58,860

yelled like and it was actually a

194

00:10:02,750 --> 00:10:00,540

meteorite I mean what are the odds of

195

00:10:04,190 --> 00:10:02,760

that I mean it was it streaked and it

196

00:10:06,710 --> 00:10:04,200

was just a loud like burst of light

197

00:10:08,210 --> 00:10:06,720

right in my eye but uh so I mean you're

198

00:10:09,949 --> 00:10:08,220

observing such a small like you're

199

00:10:11,509 --> 00:10:09,959

saying such a small little section and

200

00:10:13,610 --> 00:10:11,519

the odds of that have has that ever

201
00:10:16,310 --> 00:10:13,620
happened to you or anyone that you know

202
00:10:18,650 --> 00:10:16,320
yeah yeah it happened

203
00:10:21,470 --> 00:10:18,660
um uh I was using different kind of

204
00:10:23,930 --> 00:10:21,480
telescopes uh uh at least three four

205
00:10:28,250 --> 00:10:23,940
times and it happened to have a shooting

206
00:10:31,009 --> 00:10:28,260
star just during an observation because

207
00:10:33,769 --> 00:10:31,019
I was in the computer room and

208
00:10:37,550 --> 00:10:33,779
unfortunately during the exposure there

209
00:10:40,730 --> 00:10:37,560
was this uh streak of the light on but

210
00:10:43,550 --> 00:10:40,740
it was clearly the something like a

211
00:10:47,389 --> 00:10:43,560
shooting star something like that only

212
00:10:50,389 --> 00:10:47,399
once I had a very strange thing uh I was

213
00:10:53,930 --> 00:10:50,399

alone there was no technician and there

214

00:10:56,090 --> 00:10:53,940

was a opening the Dome here

215

00:10:58,670 --> 00:10:56,100

um all of a sudden there was a big flash

216

00:11:01,550 --> 00:10:58,680

of light oh outside I thought it was

217

00:11:04,910 --> 00:11:01,560

headlights colored lights from the road

218

00:11:10,490 --> 00:11:04,920

that anyway is quite far away and the

219

00:11:12,949 --> 00:11:10,500

beam is perpendicular to to the line of

220

00:11:16,449 --> 00:11:12,959

sight so it's difficult that it

221

00:11:20,930 --> 00:11:16,459

penetrated inside the Dome at that point

222

00:11:24,470 --> 00:11:20,940

I was using a photo Photon counting

223

00:11:26,090 --> 00:11:24,480

photometer all of a sudden it went in

224

00:11:29,389 --> 00:11:26,100

over range

225

00:11:31,130 --> 00:11:29,399

and I had to reboot all the system it

226

00:11:33,889 --> 00:11:31,140

took about 20 minutes to reboot

227

00:11:37,069 --> 00:11:33,899

everything you know we with those all

228

00:11:39,710 --> 00:11:37,079

the floppy disks it was a smaller

229

00:11:42,110 --> 00:11:39,720

telescope and not the bigger one which

230

00:11:44,269 --> 00:11:42,120

is more modern so something strange

231

00:11:47,389 --> 00:11:44,279

happened once but I didn't see anything

232

00:11:50,389 --> 00:11:47,399

outside because it was very busy and

233

00:11:52,970 --> 00:11:50,399

problem solving and so on the only

234

00:11:56,509 --> 00:11:52,980

strange situation happened to me during

235

00:11:58,790 --> 00:11:56,519

astrophysical observation was that never

236

00:12:00,290 --> 00:11:58,800

anymore yeah well that was definitely

237

00:12:02,870 --> 00:12:00,300

aliens

238

00:12:04,970 --> 00:12:02,880

I'm joking I'm joking well I was looking

239

00:12:08,630 --> 00:12:04,980

outside yeah I was worried that they can

240

00:12:12,530 --> 00:12:10,310

well you're still here that's good they

241

00:12:13,790 --> 00:12:12,540

decided to leave you there yeah

242

00:12:15,230 --> 00:12:13,800

um so I don't know which one do you want

243

00:12:17,930 --> 00:12:15,240

to start this but I'd like for you to

244

00:12:20,750 --> 00:12:17,940

talk about the chapter or chapters you

245

00:12:23,329 --> 00:12:20,760

have added to this book um either one of

246

00:12:25,190 --> 00:12:23,339

you uh I had just started reading yours

247

00:12:27,350 --> 00:12:25,200

Massimo

248

00:12:29,569 --> 00:12:27,360

um but either one of you uh can take

249

00:12:31,130 --> 00:12:29,579

that I want to hear from both of you so

250

00:12:31,910 --> 00:12:31,140

I don't know who wants to give it a

251
00:12:34,790 --> 00:12:31,920
start

252
00:12:36,650 --> 00:12:34,800
you Martin just to clarify you'd like us

253
00:12:39,829 --> 00:12:36,660
to talk about our own chapters in the

254
00:12:41,870 --> 00:12:39,839
book or yeah okay you want to go first

255
00:12:43,670 --> 00:12:41,880
or you yeah go ahead yeah I will try to

256
00:12:45,370 --> 00:12:43,680
be uh quick

257
00:12:48,530 --> 00:12:45,380
um

258
00:12:51,610 --> 00:12:48,540
the invitation the invitation by by

259
00:12:54,590 --> 00:12:51,620
Jensen was very kind and also

260
00:12:57,230 --> 00:12:54,600
intellectually stimulating

261
00:13:01,430 --> 00:12:57,240
um the point was that

262
00:13:04,370 --> 00:13:01,440
um I felt that I had to tell what I

263
00:13:07,370 --> 00:13:04,380

think about the so-called UFO phenomenon

264

00:13:11,090 --> 00:13:07,380

and the way in which much be treated so

265

00:13:14,150 --> 00:13:11,100

I didn't feel that I had to explain

266

00:13:19,430 --> 00:13:14,160

technically what I'm doing I mean

267

00:13:22,250 --> 00:13:19,440

mathematically like uh I often do but I

268

00:13:25,329 --> 00:13:22,260

only wanted to tell what kind of

269

00:13:28,430 --> 00:13:25,339

speculations of the kind of ideas were

270

00:13:31,190 --> 00:13:28,440

rolling around my head about the

271

00:13:34,129 --> 00:13:31,200

phenomena and what came out was a

272

00:13:35,230 --> 00:13:34,139

chapter split in two parts the first

273

00:13:38,030 --> 00:13:35,240

part

274

00:13:42,230 --> 00:13:38,040

mentioning my activity with the city

275

00:13:43,610 --> 00:13:42,240

project and also I published on peer

276

00:13:45,350 --> 00:13:43,620

review journals like architect

277

00:13:46,090 --> 00:13:45,360

astronautica

278

00:13:48,710 --> 00:13:46,100

um

279

00:13:50,410 --> 00:13:48,720

investigating the possibility that the

280

00:13:54,050 --> 00:13:50,420

something

281

00:13:56,990 --> 00:13:54,060

and that Etc not only are sending

282

00:13:59,569 --> 00:13:57,000

signals to us which I was trying to get

283

00:14:03,470 --> 00:13:59,579

with a multi-channel spectrum analyzer

284

00:14:07,009 --> 00:14:03,480

but also that they could send some

285

00:14:11,269 --> 00:14:07,019

um technological objects towards us or

286

00:14:14,210 --> 00:14:11,279

they could surround their own stars with

287

00:14:17,090 --> 00:14:14,220

the Techno things that we call technos

288

00:14:20,389 --> 00:14:17,100

example so I did a technical proposal

289

00:14:22,490 --> 00:14:20,399

how to find them and what came out is

290

00:14:25,430 --> 00:14:22,500

that what do we expect from that

291

00:14:28,730 --> 00:14:25,440

research we expect infra and infrared

292

00:14:32,449 --> 00:14:28,740

access from their star for instance a

293

00:14:33,490 --> 00:14:32,459

solar type star like it it is suspect to

294

00:14:37,190 --> 00:14:33,500

be

295

00:14:40,009 --> 00:14:37,200

is not expected to send a lot of

296

00:14:42,290 --> 00:14:40,019

infrared delegation if we have an excess

297

00:14:44,050 --> 00:14:42,300

of infrared radiation that could be due

298

00:14:47,449 --> 00:14:44,060

to

299

00:14:50,389 --> 00:14:47,459

technological sphere that is wrapping

300

00:14:54,069 --> 00:14:50,399

the star like a so-called Dyson Sphere

301

00:14:58,310 --> 00:14:54,079

Dyson Sphere some of those

302

00:15:02,210 --> 00:14:58,320

many objects can theoretically be sent

303

00:15:04,610 --> 00:15:02,220

out of their of the Dyson Sphere and

304

00:15:08,329 --> 00:15:04,620

they would become like a space arcs

305

00:15:11,030 --> 00:15:08,339

Dyson arcs one of them or more one or

306

00:15:12,590 --> 00:15:11,040

more could be in the solar system for

307

00:15:14,710 --> 00:15:12,600

instance

308

00:15:22,009 --> 00:15:18,290

which uh professionally Lord discovered

309

00:15:22,629 --> 00:15:22,019

with his colleagues could be one of them

310

00:15:26,650 --> 00:15:22,639

um

311

00:15:30,050 --> 00:15:26,660

uh and then clearly if we think about

312

00:15:33,410 --> 00:15:30,060

this kind of object which I imagine like

313

00:15:36,350 --> 00:15:33,420

a carriers uh they could send their own

314

00:15:40,250 --> 00:15:36,360

shuttles for exploration to the most

315

00:15:44,470 --> 00:15:40,260

interesting Planet ours and so we could

316

00:15:48,170 --> 00:15:44,480

see possibly UFOs or something like that

317

00:15:51,650 --> 00:15:48,180

and it's uh it's not impossible there is

318

00:15:54,290 --> 00:15:51,660

no proof about that I mean scientific

319

00:15:57,470 --> 00:15:54,300

proof but it's possible this is the

320

00:16:00,530 --> 00:15:57,480

standard View and I spoke about in the

321

00:16:02,389 --> 00:16:00,540

first part in the second part

322

00:16:06,410 --> 00:16:02,399

um I want you to mention because it's

323

00:16:09,170 --> 00:16:06,420

because of honesty uh of uh intellectual

324

00:16:12,230 --> 00:16:09,180

honesty uh what I've been studying

325

00:16:15,710 --> 00:16:12,240

because uh clearly I am very focused on

326

00:16:18,710 --> 00:16:15,720

my research technically I'm very much on

327

00:16:21,769 --> 00:16:18,720

the ground mathematically also now for

328

00:16:23,449 --> 00:16:21,779

instance but I also want to read I want

329

00:16:26,150 --> 00:16:23,459

to try to inform to see what my

330

00:16:29,810 --> 00:16:26,160

colleagues are are publishing

331

00:16:33,050 --> 00:16:29,820

um there is some important research that

332

00:16:36,170 --> 00:16:33,060

has been done by some German and Russian

333

00:16:40,069 --> 00:16:36,180

scientists about a behavior of plasmas

334

00:16:43,310 --> 00:16:40,079

in particular conditions okay and if

335

00:16:46,730 --> 00:16:43,320

they interact with the dust particles

336

00:16:50,030 --> 00:16:46,740

that are electrostatically charged it's

337

00:16:53,509 --> 00:16:50,040

possible that they some helical

338

00:16:57,769 --> 00:16:53,519

structure very similar not to say

339

00:17:00,710 --> 00:16:57,779

identical to the DNA start to form not

340

00:17:04,730 --> 00:17:00,720

only statically but dynamically they

341

00:17:07,809 --> 00:17:04,740

multiply so they have to say a reminder

342

00:17:09,770 --> 00:17:07,819

literally the phenomenon of

343

00:17:13,549 --> 00:17:09,780

organic life

344

00:17:16,909 --> 00:17:13,559

so someone this was published on the new

345

00:17:20,030 --> 00:17:16,919

Journal of physics in 2007 started to

346

00:17:24,049 --> 00:17:20,040

think about that is it possible life is

347

00:17:27,169 --> 00:17:24,059

developed only on carbon or even silicon

348

00:17:31,310 --> 00:17:27,179

or not on plasmas that was very

349

00:17:34,210 --> 00:17:31,320

interesting at the same time I noticed

350

00:17:38,630 --> 00:17:34,220

that there were Studies by physicists

351
00:17:41,630 --> 00:17:38,640
Quantum physicist David Baum on plasmas

352
00:17:44,870 --> 00:17:41,640
he did his PhD research of plasmas and

353
00:17:48,490 --> 00:17:44,880
he discovered that plasmas behave a not

354
00:17:50,390 --> 00:17:48,500
like separate particles but like a whole

355
00:17:52,450 --> 00:17:50,400
that is a

356
00:17:56,150 --> 00:17:52,460
kind of

357
00:17:58,490 --> 00:17:56,160
in a sort of unity in its Behavior if

358
00:18:00,070 --> 00:17:58,500
you trigger one particle all the others

359
00:18:04,130 --> 00:18:00,080
will feel that

360
00:18:08,150 --> 00:18:04,140
some other physicists founded in some

361
00:18:11,510 --> 00:18:08,160
conditions plasma particles can become

362
00:18:13,970 --> 00:18:11,520
entangled creating particles that are

363
00:18:17,590 --> 00:18:13,980

called plasmodes

364

00:18:20,930 --> 00:18:17,600

and third there is a theory

365

00:18:23,930 --> 00:18:20,940

that is still controversial but not so

366

00:18:25,190 --> 00:18:23,940

much controversial as 10 years ago by

367

00:18:30,169 --> 00:18:25,200

Noble

368

00:18:33,710 --> 00:18:30,179

physics and Nobel Prize Roger Perros

369

00:18:36,169 --> 00:18:33,720

and anesthesiologist Stuart hammeroff

370

00:18:37,730 --> 00:18:36,179

okay and they did a Model about

371

00:18:41,090 --> 00:18:37,740

consciousness

372

00:18:43,190 --> 00:18:41,100

and how the brain works okay and they

373

00:18:45,970 --> 00:18:43,200

elaborated the modeling particular

374

00:18:47,950 --> 00:18:45,980

Perros telling that

375

00:18:51,289 --> 00:18:47,960

the brain

376

00:18:55,390 --> 00:18:51,299

activity is not only made by

377

00:18:58,610 --> 00:18:55,400

um like a machine like the firing of

378

00:19:00,909 --> 00:18:58,620

electrical signals from the neurons from

379

00:19:04,669 --> 00:19:00,919

the asons from the

380

00:19:06,789 --> 00:19:04,679

synapses also but it's something that

381

00:19:10,250 --> 00:19:06,799

could be created by so-called

382

00:19:13,850 --> 00:19:10,260

microtubules which are components of the

383

00:19:17,690 --> 00:19:13,860

neurons when micro tubers become

384

00:19:20,409 --> 00:19:17,700

entangled together in Quantum way namely

385

00:19:25,310 --> 00:19:20,419

when you have a Quantum coherent

386

00:19:27,789 --> 00:19:25,320

Unity among 1 billion microtubules and

387

00:19:31,370 --> 00:19:27,799

then we have the spontaneous collapse

388

00:19:34,190 --> 00:19:31,380

both at the level of space-time and at

389

00:19:36,710 --> 00:19:34,200

the level Quantum vacuum at that point

390

00:19:39,650 --> 00:19:36,720

you have a moment of consciousness

391

00:19:43,690 --> 00:19:39,660

at that point I thought isn't it

392

00:19:48,230 --> 00:19:43,700

possible that the same mechanism happens

393

00:19:51,650 --> 00:19:48,240

with the plasma particles is it possible

394

00:19:54,350 --> 00:19:51,660

that some some plasma particles are

395

00:19:56,810 --> 00:19:54,360

entangled together in a in a conditional

396

00:19:59,570 --> 00:19:56,820

Quantum currents and that they are able

397

00:20:02,150 --> 00:19:59,580

to create Moments Of Consciousness so at

398

00:20:04,130 --> 00:20:02,160

this point yes

399

00:20:06,409 --> 00:20:04,140

no no I'm saying wow this is really

400

00:20:09,049 --> 00:20:06,419

fascinating it's fascinating it's

401
00:20:12,110 --> 00:20:09,059
fascinating something clearly

402
00:20:14,570 --> 00:20:12,120
um that there's nothing to do with the

403
00:20:18,110 --> 00:20:14,580
what I am doing now now I'm doing

404
00:20:21,470 --> 00:20:18,120
calculations only on spectroscopy but

405
00:20:24,590 --> 00:20:21,480
this is speculation and I want to

406
00:20:28,730 --> 00:20:24,600
specify it's a speculation but I think

407
00:20:32,470 --> 00:20:28,740
it's very important because if

408
00:20:36,169 --> 00:20:32,480
um there is a an analogy okay between

409
00:20:39,289 --> 00:20:36,179
plasma particles and the microtubules in

410
00:20:43,549 --> 00:20:39,299
the brain if the microtubules in the

411
00:20:47,810 --> 00:20:43,559
brain behave really like Perros say if

412
00:20:50,510 --> 00:20:47,820
plasma particles uh behave in in a

413
00:20:53,570 --> 00:20:50,520

similar way then it could be that some

414

00:20:56,870 --> 00:20:53,580

light balls like plasma balls like they

415

00:21:00,470 --> 00:20:56,880

are seen in a Stalin for instance but

416

00:21:02,090 --> 00:21:00,480

also in your country like the brown

417

00:21:05,990 --> 00:21:02,100

Mountain

418

00:21:09,110 --> 00:21:06,000

uh yakina or so uh it's for is it

419

00:21:12,350 --> 00:21:09,120

possible that these are kind of life

420

00:21:14,510 --> 00:21:12,360

form and in case that they can also

421

00:21:17,029 --> 00:21:14,520

reach a state of consciousness because

422

00:21:20,510 --> 00:21:17,039

of an entanglement quantum entanglement

423

00:21:23,289 --> 00:21:20,520

situation between its particles well I

424

00:21:27,110 --> 00:21:23,299

thought and then I told well

425

00:21:28,490 --> 00:21:27,120

we tried to stimulate this feminine in

426
00:21:31,310 --> 00:21:28,500
particular

427
00:21:34,430 --> 00:21:31,320
um my friend professor of Adeline strand

428
00:21:38,390 --> 00:21:34,440
in Norway is darling stimulating these

429
00:21:42,289 --> 00:21:38,400
balls using a laser beam and these balls

430
00:21:46,250 --> 00:21:42,299
were pulsating and every time the lizard

431
00:21:49,789 --> 00:21:46,260
game was aimed at them uh they were

432
00:21:52,970 --> 00:21:49,799
changing the position rate so like if it

433
00:21:56,390 --> 00:21:52,980
was intelligent it could be a sort of

434
00:21:58,850 --> 00:21:56,400
new uh Photon Photon

435
00:22:00,649 --> 00:21:58,860
um interaction that we don't know yet so

436
00:22:02,750 --> 00:22:00,659
something that has nothing to do with

437
00:22:05,990 --> 00:22:02,760
intelligence or something or it could be

438
00:22:09,590 --> 00:22:06,000

to something else I think I have an

439

00:22:13,450 --> 00:22:09,600

hypothesis that can be uh tested with

440

00:22:16,190 --> 00:22:13,460

instruments uh that uh Elizabeth

441

00:22:19,789 --> 00:22:16,200

trigger uh

442

00:22:22,909 --> 00:22:19,799

um collapse of the quantum wave function

443

00:22:25,970 --> 00:22:22,919

that unites all the particle and create

444

00:22:28,850 --> 00:22:25,980

momentarily a Consciousness moment this

445

00:22:31,909 --> 00:22:28,860

is mad hypothesis I know that I know it

446

00:22:34,549 --> 00:22:31,919

is mad but I know also what I like of

447

00:22:39,110 --> 00:22:34,559

this is that it can be tested using

448

00:22:42,830 --> 00:22:39,120

high-speed cameras or photometers to see

449

00:22:45,890 --> 00:22:42,840

if there is something coded inside in

450

00:22:48,710 --> 00:22:45,900

the way in which these lights pulsate or

451
00:22:50,630 --> 00:22:48,720
change their color or the way in which

452
00:22:53,090 --> 00:22:50,640
they move in the sky

453
00:22:55,490 --> 00:22:53,100
Um this can be tested

454
00:22:58,210 --> 00:22:55,500
um I was participating to the

455
00:23:01,149 --> 00:22:58,220
International Academy of astronauts

456
00:23:04,010 --> 00:23:01,159
strontics I spoke

457
00:23:06,850 --> 00:23:04,020
presenting two Works in San Marino not

458
00:23:10,250 --> 00:23:06,860
about this but about City

459
00:23:12,789 --> 00:23:10,260
the next time three years later I sent a

460
00:23:15,850 --> 00:23:12,799
proposal to study also this possibility

461
00:23:19,010 --> 00:23:15,860
and the guy who command

462
00:23:22,970 --> 00:23:19,020
Setai in Europe with a very good

463
00:23:26,930 --> 00:23:22,980

scientist and uh who is also friend told

464

00:23:28,390 --> 00:23:26,940

don't dare to come to Paris to present

465

00:23:31,789 --> 00:23:28,400

this because

466

00:23:34,149 --> 00:23:31,799

the very most part of the commission is

467

00:23:37,610 --> 00:23:34,159

against against

468

00:23:41,270 --> 00:23:37,620

your proposal they're completely scared

469

00:23:43,190 --> 00:23:41,280

we are the duty to test things when

470

00:23:47,029 --> 00:23:43,200

things can be testable we have to test

471

00:23:49,490 --> 00:23:47,039

them and this is one only one

472

00:23:52,850 --> 00:23:49,500

possibility it's not what I am working

473

00:23:55,690 --> 00:23:52,860

on now but I think it's very important I

474

00:23:58,669 --> 00:23:55,700

feel it's very uh

475

00:24:00,830 --> 00:23:58,679

externally important

476

00:24:03,409 --> 00:24:00,840

that is really fascinating you know

477

00:24:05,330 --> 00:24:03,419

people have been by the way your English

478

00:24:07,450 --> 00:24:05,340

is perfect you have really great English

479

00:24:10,490 --> 00:24:07,460

oh thank you very much

480

00:24:13,310 --> 00:24:10,500

people have been talking about seeing

481

00:24:17,330 --> 00:24:13,320

they call them orbs a lot of times uh

482

00:24:19,669 --> 00:24:17,340

you know uh for years and a lot of

483

00:24:23,810 --> 00:24:19,679

people have been saying they seem to be

484

00:24:25,730 --> 00:24:23,820

under intelligent control which uh has

485

00:24:28,130 --> 00:24:25,740

you know you hear that over and over

486

00:24:29,750 --> 00:24:28,140

again when it comes to these things

487

00:24:32,270 --> 00:24:29,760

um you know the way they react the way

488

00:24:34,909 --> 00:24:32,280

they react to objects and whatever you

489

00:24:36,409 --> 00:24:34,919

know taking turns in front of people and

490

00:24:38,930 --> 00:24:36,419

things like that from you know what

491

00:24:40,070 --> 00:24:38,940

people have uh said or seem to have

492

00:24:40,730 --> 00:24:40,080

witnessed

493

00:24:43,430 --> 00:24:40,740

um

494

00:24:45,950 --> 00:24:43,440

and you know perhaps it's uh perhaps

495

00:24:47,450 --> 00:24:45,960

it's some type of life that we would not

496

00:24:48,830 --> 00:24:47,460

expect

497

00:24:52,909 --> 00:24:48,840

um you know that's that's the thing I

498

00:24:55,190 --> 00:24:52,919

think a lot when I just I I think that

499

00:24:57,529 --> 00:24:55,200

um a lot of times I think about the fact

500

00:24:59,390 --> 00:24:57,539

that we probably only see so much you

501
00:25:02,090 --> 00:24:59,400
know we have this spectrum that we see

502
00:25:04,669 --> 00:25:02,100
in in all our senses there may be other

503
00:25:07,730 --> 00:25:04,679
things around us that we have no idea

504
00:25:09,529 --> 00:25:07,740
that are exists at all which is another

505
00:25:11,450 --> 00:25:09,539
fascinating thing and the whole thing

506
00:25:13,430 --> 00:25:11,460
you said about the quantum like the

507
00:25:16,970 --> 00:25:13,440
quantum type of entanglement things like

508
00:25:19,850 --> 00:25:16,980
that is also you know uh just uh what

509
00:25:21,549 --> 00:25:19,860
did uh Einstein say spooky uh something

510
00:25:24,890 --> 00:25:21,559
I can't remember exactly what is

511
00:25:27,169 --> 00:25:24,900
injection at this in distance yeah

512
00:25:30,230 --> 00:25:27,179
that's right that's right uh really

513
00:25:32,390 --> 00:25:30,240

really really fascinating and as far as

514

00:25:34,430 --> 00:25:32,400

uh you know people have suggested there

515

00:25:36,769 --> 00:25:34,440

could you know panspermia might be

516

00:25:39,169 --> 00:25:36,779

something that's happened here or other

517

00:25:41,510 --> 00:25:39,179

places and it seems to me that life

518

00:25:43,610 --> 00:25:41,520

wants to exist you know who knows what

519

00:25:46,029 --> 00:25:43,620

the first Spark of Life how that all

520

00:25:48,830 --> 00:25:46,039

happened and where it all happened but

521

00:25:50,630 --> 00:25:48,840

but it does seem like life wants to

522

00:25:51,950 --> 00:25:50,640

exist what do you what do you think

523

00:25:54,769 --> 00:25:51,960

about that

524

00:25:57,590 --> 00:25:54,779

that talk well

525

00:26:00,350 --> 00:25:57,600

I am not the biologist so I cannot

526

00:26:02,690 --> 00:26:00,360

express things for which I am not

527

00:26:03,490 --> 00:26:02,700

competent but

528

00:26:08,810 --> 00:26:03,500

um

529

00:26:12,430 --> 00:26:08,820

uh if the plasma life hypothesis were

530

00:26:15,350 --> 00:26:12,440

true it could be demonstrated that then

531

00:26:21,230 --> 00:26:15,360

the universal would be full of life

532

00:26:23,470 --> 00:26:21,240

because uh 99 of the universe is made of

533

00:26:28,490 --> 00:26:23,480

plasma

534

00:26:31,510 --> 00:26:28,500

so life could exist everywhere also in

535

00:26:36,049 --> 00:26:31,520

the most Unthinkable place like the moon

536

00:26:38,450 --> 00:26:36,059

or other things regarding the biological

537

00:26:42,890 --> 00:26:38,460

biological

538

00:26:46,370 --> 00:26:42,900

um aspect of life I cannot tell anything

539

00:26:48,890 --> 00:26:46,380

because this is this is not my field but

540

00:26:52,430 --> 00:26:48,900

I might

541

00:26:55,909 --> 00:26:52,440

accept even if it's not demonstrated the

542

00:26:59,090 --> 00:26:55,919

possibility that yes comments are full

543

00:27:02,750 --> 00:26:59,100

of organic material and I also aim

544

00:27:05,149 --> 00:27:02,760

coming at with a radio telescope a lot

545

00:27:07,490 --> 00:27:05,159

of organic material and so they could

546

00:27:10,070 --> 00:27:07,500

have brought life there are many

547

00:27:12,649 --> 00:27:10,080

comments that are falling on Earth very

548

00:27:15,769 --> 00:27:12,659

little they they burn in the atmosphere

549

00:27:19,870 --> 00:27:15,779

normally it could be that or it could be

550

00:27:24,789 --> 00:27:19,880

that yes someone might have engineered

551
00:27:27,430 --> 00:27:24,799
life from elsewhere and the seeding

552
00:27:32,090 --> 00:27:27,440
uh planets

553
00:27:35,690 --> 00:27:32,100
first using terraforming like we could

554
00:27:38,690 --> 00:27:35,700
do maybe in the next 300 years on Mars

555
00:27:42,409 --> 00:27:38,700
yeah on Mars first starting with

556
00:27:45,110 --> 00:27:42,419
terraforming and then injecting

557
00:27:47,029 --> 00:27:45,120
um the the seeds of Life the DNA this is

558
00:27:52,010 --> 00:27:47,039
very possible it's nothing science

559
00:27:55,490 --> 00:27:52,020
fiction it could be possible so uh it I

560
00:28:00,289 --> 00:27:55,500
don't think that life spontaneously

561
00:28:03,529 --> 00:28:00,299
um installs itself on the planets but

562
00:28:04,510 --> 00:28:03,539
that you need a push from uh from

563
00:28:07,190 --> 00:28:04,520

outside

564

00:28:09,169 --> 00:28:07,200

unless the commenter bring organic

565

00:28:11,870 --> 00:28:09,179

materials then yes everything could be

566

00:28:15,850 --> 00:28:11,880

spontaneous but you need something

567

00:28:19,669 --> 00:28:15,860

intelligent that creates such an Harmony

568

00:28:22,430 --> 00:28:19,679

that we see around us except for some

569

00:28:25,610 --> 00:28:22,440

mistakes uh you know all the software

570

00:28:27,470 --> 00:28:25,620

was not perfect in my opinion but anyway

571

00:28:30,710 --> 00:28:27,480

it's a beautiful spectacular

572

00:28:33,230 --> 00:28:30,720

yes now you mentioned silicone-based

573

00:28:35,210 --> 00:28:33,240

life the possibility of that what would

574

00:28:36,950 --> 00:28:35,220

that be you know instead of carbon based

575

00:28:41,330 --> 00:28:36,960

like what would that what would the

576

00:28:44,690 --> 00:28:41,340

difference be as far as uh like could

577

00:28:48,590 --> 00:28:44,700

there be DNA in in silicone-based life

578

00:28:50,810 --> 00:28:48,600

and what would we expect to see it for

579

00:28:53,690 --> 00:28:50,820

as an organism

580

00:28:56,570 --> 00:28:53,700

well in that case uh not being a

581

00:29:01,370 --> 00:28:56,580

biochemist or a biologist I can say that

582

00:29:05,470 --> 00:29:01,380

but uh in Silicon uh I don't know I have

583

00:29:08,450 --> 00:29:05,480

no idea uh but I might think that

584

00:29:12,590 --> 00:29:08,460

there are

585

00:29:17,510 --> 00:29:12,600

um I would say probes like

586

00:29:20,769 --> 00:29:17,520

um scientist Von Neumann uh decades ago

587

00:29:24,769 --> 00:29:20,779

predicted probes that are made of um

588

00:29:27,409 --> 00:29:24,779

silicon but also of intelligent silicon

589

00:29:30,649 --> 00:29:27,419

chips or something that is governed by

590

00:29:33,070 --> 00:29:30,659

artificial intelligence for instance as

591

00:29:36,289 --> 00:29:33,080

Professor Abby lawyer said several times

592

00:29:39,409 --> 00:29:36,299

it's possible it's difficult to think

593

00:29:43,970 --> 00:29:39,419

that a living being a biological living

594

00:29:45,350 --> 00:29:43,980

being will cross space to come up to

595

00:29:50,930 --> 00:29:45,360

here

596

00:29:55,010 --> 00:29:50,940

um uh staying in space for years

597

00:29:57,950 --> 00:29:55,020

okay I'm being subject to a cosmic

598

00:30:00,470 --> 00:29:57,960

radiation that is very dangerous so you

599

00:30:02,090 --> 00:30:00,480

would use something else that is

600

00:30:03,889 --> 00:30:02,100

robotically

601
00:30:08,630 --> 00:30:03,899
um probably

602
00:30:10,190 --> 00:30:08,640
um constructed to explore space and send

603
00:30:15,610 --> 00:30:10,200
data

604
00:30:18,950 --> 00:30:15,620
um to the origin of this the original

605
00:30:22,010 --> 00:30:18,960
biological beings

606
00:30:25,549 --> 00:30:22,020
um I have no idea how a silicon waveform

607
00:30:27,470 --> 00:30:25,559
can form some biologists think so I

608
00:30:29,889 --> 00:30:27,480
don't know the mechanism but I know that

609
00:30:32,269 --> 00:30:29,899
they have been hypothesizing this thing

610
00:30:34,370 --> 00:30:32,279
I personally think it's something

611
00:30:36,529 --> 00:30:34,380
technological

612
00:30:40,669 --> 00:30:36,539
um yeah I would say

613
00:30:42,409 --> 00:30:40,679

uh-huh wow uh well I'm I'm really

614

00:30:45,950 --> 00:30:42,419

excited about this conversation and

615

00:30:47,450 --> 00:30:45,960

really loving it uh so uh Jen's saying I

616

00:30:50,570 --> 00:30:47,460

would like for you if you could at this

617

00:30:51,769 --> 00:30:50,580

point talk about your your chapter that

618

00:30:54,649 --> 00:30:51,779

you've written

619

00:30:57,710 --> 00:30:54,659

sure actually I I have two chapters in

620

00:31:00,049 --> 00:30:57,720

the book The First and the last and

621

00:31:01,389 --> 00:31:00,059

the first is more or less an

622

00:31:04,669 --> 00:31:01,399

introduction

623

00:31:08,269 --> 00:31:04,679

explaining what the invitation was to

624

00:31:11,230 --> 00:31:08,279

the contributors and I just want to kind

625

00:31:14,269 --> 00:31:11,240

of back up one step and and make another

626
00:31:16,730 --> 00:31:14,279
statement which is Massimo and I are

627
00:31:19,370 --> 00:31:16,740
both very privileged to be members of

628
00:31:21,889 --> 00:31:19,380
the Galileo project at Harvard but but

629
00:31:25,850 --> 00:31:21,899
this project this book

630
00:31:29,090 --> 00:31:25,860
uh kind of predates that and so nothing

631
00:31:31,850 --> 00:31:29,100
oh thank you nothing that we say here

632
00:31:34,850 --> 00:31:31,860
during the interview should be in any

633
00:31:37,389 --> 00:31:34,860
way construed as any kind of a statement

634
00:31:42,649 --> 00:31:37,399
on behalf of Galileo project that is a

635
00:31:45,350 --> 00:31:42,659
completely different instrument based

636
00:31:46,690 --> 00:31:45,360
um you know mainstream scientific

637
00:31:49,190 --> 00:31:46,700
methodology

638
00:31:50,990 --> 00:31:49,200

projects so just to be really clear

639

00:31:52,970 --> 00:31:51,000

about that

640

00:31:54,470 --> 00:31:52,980

um uh now

641

00:31:57,830 --> 00:31:54,480

the book

642

00:32:01,970 --> 00:31:57,840

as Massimo said was meant to be

643

00:32:03,830 --> 00:32:01,980

speculative and when I used to teach I I

644

00:32:06,830 --> 00:32:03,840

did a lot of work in cognitive science

645

00:32:10,370 --> 00:32:06,840

and Neuroscience for example

646

00:32:11,210 --> 00:32:10,380

so what has always been interesting to

647

00:32:12,950 --> 00:32:11,220

me

648

00:32:18,049 --> 00:32:12,960

is

649

00:32:20,029 --> 00:32:18,059

with respect to the first chapter in the

650

00:32:21,769 --> 00:32:20,039

book which is called cartographies of

651
00:32:25,310 --> 00:32:21,779
knowledge and academic Maps or something

652
00:32:28,570 --> 00:32:25,320
like that but basically what what the

653
00:32:33,590 --> 00:32:28,580
thought project was for me was to say

654
00:32:37,610 --> 00:32:33,600
imagine just imagine if humankind were

655
00:32:40,630 --> 00:32:37,620
to come in contact with a wildly

656
00:32:43,310 --> 00:32:40,640
sophisticated and intelligent species

657
00:32:46,070 --> 00:32:43,320
what would that do

658
00:32:48,529 --> 00:32:46,080
to the cartography or the map

659
00:32:49,850 --> 00:32:48,539
of the academic disciplines

660
00:32:52,730 --> 00:32:49,860
because

661
00:32:53,990 --> 00:32:52,740
what I've noticed being in Academia you

662
00:32:57,350 --> 00:32:54,000
know most of my life although not

663
00:33:00,529 --> 00:32:57,360

entirely but most of it was

664

00:33:03,110 --> 00:33:00,539

we take for granted the demarcations

665

00:33:06,590 --> 00:33:03,120

between the disciplines so we almost

666

00:33:08,389 --> 00:33:06,600

take for granted this idea that this is

667

00:33:10,909 --> 00:33:08,399

physics and this is you know these are

668

00:33:12,950 --> 00:33:10,919

the end points of physics then we have

669

00:33:16,070 --> 00:33:12,960

this thing biology then we have

670

00:33:17,690 --> 00:33:16,080

chemistry you know Etc through all our

671

00:33:19,549 --> 00:33:17,700

disciplines and

672

00:33:23,389 --> 00:33:19,559

one of the things that intellectually

673

00:33:26,930 --> 00:33:23,399

always struck me is the fact that even

674

00:33:28,630 --> 00:33:26,940

though you have linguistic diversity and

675

00:33:30,950 --> 00:33:28,640

cultural diversity around the world

676
00:33:33,909 --> 00:33:30,960
people speaking completely different

677
00:33:36,110 --> 00:33:33,919
languages and very different

678
00:33:38,990 --> 00:33:36,120
ideological commitments and very

679
00:33:41,269 --> 00:33:39,000
different cultural contexts nevertheless

680
00:33:44,149 --> 00:33:41,279
in every major developed world that has

681
00:33:47,630 --> 00:33:44,159
a university system the map of the

682
00:33:51,409 --> 00:33:47,640
disciplines is more or less completely

683
00:33:53,810 --> 00:33:51,419
the same regardless of where you are on

684
00:33:56,750 --> 00:33:53,820
earth and regardless of what language

685
00:34:00,049 --> 00:33:56,760
you're speaking well that's kind of odd

686
00:34:02,149 --> 00:34:00,059
to me why is there the standardization

687
00:34:03,230 --> 00:34:02,159
and how we think about the disciplines

688
00:34:04,370 --> 00:34:03,240

but

689

00:34:09,829 --> 00:34:04,380

that

690

00:34:13,730 --> 00:34:09,839

standardization struck me as having a

691

00:34:15,530 --> 00:34:13,740

downside risk which is if we've gotten

692

00:34:19,369 --> 00:34:15,540

it wrong

693

00:34:23,810 --> 00:34:19,379

whole world

694

00:34:25,490 --> 00:34:23,820

and we're reproducing in our University

695

00:34:28,250 --> 00:34:25,500

system

696

00:34:31,669 --> 00:34:28,260

whatever we might have seen incorrectly

697

00:34:34,490 --> 00:34:31,679

so the thought experiment of of working

698

00:34:35,510 --> 00:34:34,500

you know speculating on what might we

699

00:34:37,669 --> 00:34:35,520

learn

700

00:34:41,149 --> 00:34:37,679

from an advanced extraterrestrial

701
00:34:43,909 --> 00:34:41,159
species was meant to sort of shape Us

702
00:34:46,909 --> 00:34:43,919
free of the commitments that we already

703
00:34:49,190 --> 00:34:46,919
have to these hard and fast disciplines

704
00:34:50,690 --> 00:34:49,200
so that's how I introduced it I was

705
00:34:53,329 --> 00:34:50,700
saying you know what do you think would

706
00:34:56,530 --> 00:34:53,339
these disciplines stay the same I very

707
00:34:59,990 --> 00:34:56,540
much doubt it because already we know

708
00:35:02,750 --> 00:35:00,000
obviously you know our biggest problem

709
00:35:04,190 --> 00:35:02,760
well a very big problem well let me back

710
00:35:07,430 --> 00:35:04,200
up another step

711
00:35:10,069 --> 00:35:07,440
we know we've gotten it wrong and how do

712
00:35:11,810 --> 00:35:10,079
we know that because Society is

713
00:35:14,990 --> 00:35:11,820

completely dysfunctional

714

00:35:20,569 --> 00:35:15,000

I mean this world couldn't be more

715

00:35:23,329 --> 00:35:20,579

dysfunctional if it tried and so that is

716

00:35:26,450 --> 00:35:23,339

an indicator that there's something very

717

00:35:29,750 --> 00:35:26,460

wrong because people work hard in school

718

00:35:31,849 --> 00:35:29,760

you know we all do and yet we come out

719

00:35:35,089 --> 00:35:31,859

we take lead well not myself personally

720

00:35:37,069 --> 00:35:35,099

but people who've graduated from very

721

00:35:39,829 --> 00:35:37,079

good universities and worked very hard

722

00:35:41,569 --> 00:35:39,839

and go into positions in leadership and

723

00:35:46,329 --> 00:35:41,579

then somehow it just it just doesn't

724

00:35:49,069 --> 00:35:46,339

work we're really in a mess so

725

00:35:51,950 --> 00:35:49,079

instead of blaming people for that or

726

00:35:54,890 --> 00:35:51,960

individuals for that I wanted to look at

727

00:35:57,770 --> 00:35:54,900

the root cause what might be wrong

728

00:35:58,790 --> 00:35:57,780

intellectually and cognitively about how

729

00:36:01,569 --> 00:35:58,800

we are

730

00:36:05,990 --> 00:36:01,579

dividing the disciplines and Academia

731

00:36:08,210 --> 00:36:06,000

that's causing us to reproduce again and

732

00:36:09,290 --> 00:36:08,220

again and again thinking that doesn't

733

00:36:12,349 --> 00:36:09,300

work

734

00:36:14,089 --> 00:36:12,359

so that that sort of that was the

735

00:36:16,370 --> 00:36:14,099

introduction and then people were

736

00:36:19,069 --> 00:36:16,380

invited to respond to that would

737

00:36:22,310 --> 00:36:19,079

disciplines merge what would some

738

00:36:25,130 --> 00:36:22,320

disciplines cease to exist what do you

739

00:36:26,990 --> 00:36:25,140

do with this massive divide between

740

00:36:30,170 --> 00:36:27,000

science and religion that people have

741

00:36:34,130 --> 00:36:30,180

been trying to bridge for decades and

742

00:36:37,130 --> 00:36:34,140

you know that has had mixed results

743

00:36:40,490 --> 00:36:37,140

so that was kind of the the starting off

744

00:36:42,710 --> 00:36:40,500

point the leaping off point now now to

745

00:36:46,089 --> 00:36:42,720

jump to the completely other side of the

746

00:36:50,810 --> 00:36:48,650

that that's a that's a big chapter

747

00:36:53,089 --> 00:36:50,820

that's a long chapter it's got three

748

00:36:56,270 --> 00:36:53,099

main parts I don't want to maybe go into

749

00:37:02,510 --> 00:36:56,280

too much detail but there

750

00:37:05,569 --> 00:37:02,520

what I set out to do was to consider

751

00:37:08,150 --> 00:37:05,579

sort of reality the nature of reality or

752

00:37:10,730 --> 00:37:08,160

ontology as it's called

753

00:37:13,430 --> 00:37:10,740

from three points of view so let's let's

754

00:37:16,130 --> 00:37:13,440

look at reality first from the point of

755

00:37:18,349 --> 00:37:16,140

view of the US government and what the

756

00:37:21,410 --> 00:37:18,359

U.S government has done in the last few

757

00:37:23,870 --> 00:37:21,420

years especially with the Inception the

758

00:37:26,210 --> 00:37:23,880

establishment of the unidentified aerial

759

00:37:28,970 --> 00:37:26,220

phenomenon task force task force the

760

00:37:31,790 --> 00:37:28,980

uaptf back in August

761

00:37:34,430 --> 00:37:31,800

um I think was August 14 of 2020

762

00:37:37,730 --> 00:37:34,440

so I I kind of Trace what the government

763

00:37:39,950 --> 00:37:37,740

has done since then and actually prior

764

00:37:43,069 --> 00:37:39,960

to that I go all the way back to early

765

00:37:44,390 --> 00:37:43,079

decades look at the FBI CIA et cetera

766

00:37:47,390 --> 00:37:44,400

so

767

00:37:50,030 --> 00:37:47,400

I'm triangulating I'm saying let's look

768

00:37:51,770 --> 00:37:50,040

at this phenomena from three point of

769

00:37:53,569 --> 00:37:51,780

view three points of view the first

770

00:37:58,250 --> 00:37:53,579

being the government

771

00:38:00,230 --> 00:37:58,260

the second is from the perspective of

772

00:38:03,710 --> 00:38:00,240

how David Baum

773

00:38:05,990 --> 00:38:03,720

who was in my mind one of the

774

00:38:08,569 --> 00:38:06,000

one of the biggest Geniuses that's ever

775

00:38:11,030 --> 00:38:08,579

existed on this planet David J balm was

776

00:38:14,390 --> 00:38:11,040

a physicist and a philosopher and a

777

00:38:17,030 --> 00:38:14,400

linguist and animistic so the second

778

00:38:21,950 --> 00:38:17,040

part of that last chapter looks at how

779

00:38:26,450 --> 00:38:21,960

might Ohm's thinking inform how we think

780

00:38:28,310 --> 00:38:26,460

about UAP and ETI and when I say ETI

781

00:38:30,410 --> 00:38:28,320

it's ETI it's the acronym

782

00:38:32,390 --> 00:38:30,420

extraterrestrial intelligence

783

00:38:37,569 --> 00:38:32,400

and then the third part of the chapter

784

00:38:40,730 --> 00:38:37,579

is how might Eddie be viewing us

785

00:38:43,430 --> 00:38:40,740

and so that you know that's the

786

00:38:44,990 --> 00:38:43,440

progression that I take us through in

787

00:38:47,990 --> 00:38:45,000

that final chapter

788

00:38:49,430 --> 00:38:48,000

but I want to you know rather than

789

00:38:52,849 --> 00:38:49,440

necessarily you know people can read

790

00:38:55,670 --> 00:38:52,859

that they can read it but but rather

791

00:38:58,609 --> 00:38:55,680

than take too much time on that right

792

00:39:00,109 --> 00:38:58,619

here although it might be useful to just

793

00:39:03,290 --> 00:39:00,119

run through a few important dates

794

00:39:05,810 --> 00:39:03,300

because it's it's very confusing for

795

00:39:09,050 --> 00:39:05,820

people what's happened since August of

796

00:39:11,150 --> 00:39:09,060

2020 with all the names and the groups

797

00:39:14,569 --> 00:39:11,160

and the ndaa and this that and the other

798

00:39:17,210 --> 00:39:14,579

thing so I might Circle back to that but

799

00:39:20,270 --> 00:39:17,220

I really want to connect to what Massimo

800

00:39:23,390 --> 00:39:20,280

was saying so in addition to our common

801
00:39:25,730 --> 00:39:23,400
interest in UAP and Eddie we have a

802
00:39:28,310 --> 00:39:25,740
common interest in David and deep

803
00:39:32,930 --> 00:39:28,320
respect for the work of David Bohm

804
00:39:35,210 --> 00:39:32,940
so in the third chapter I'm sorry the

805
00:39:38,690 --> 00:39:35,220
last chapter but in the the section on

806
00:39:41,990 --> 00:39:38,700
boom I really looked at

807
00:39:43,370 --> 00:39:42,000
one idea that Bohm has articulated in a

808
00:39:45,829 --> 00:39:43,380
paper

809
00:39:48,950 --> 00:39:45,839
um that's obviously cited but it's it's

810
00:39:50,450 --> 00:39:48,960
his idea of the inseparability of matter

811
00:39:53,150 --> 00:39:50,460
and consciousness

812
00:39:56,329 --> 00:39:53,160
and this might Now link to the earlier

813
00:39:58,010 --> 00:39:56,339

comments that Massimo made about plasmas

814

00:40:01,550 --> 00:39:58,020

so

815

00:40:03,849 --> 00:40:01,560

it seems to me based on all the

816

00:40:06,770 --> 00:40:03,859

documentation and all the witness

817

00:40:09,650 --> 00:40:06,780

testimony about the advanced

818

00:40:11,930 --> 00:40:09,660

capabilities of UAP

819

00:40:14,750 --> 00:40:11,940

that

820

00:40:17,450 --> 00:40:14,760

the Consciousness behind

821

00:40:19,310 --> 00:40:17,460

not conventional UAP but the truly

822

00:40:21,710 --> 00:40:19,320

extraterrestrial ones of which I believe

823

00:40:24,849 --> 00:40:21,720

there are some

824

00:40:27,230 --> 00:40:24,859

is not tripping over the Cartesian

825

00:40:28,550 --> 00:40:27,240

dualistic notion that mind and matter

826

00:40:32,870 --> 00:40:28,560

are separate

827

00:40:36,290 --> 00:40:32,880

so that's really a point I try to

828

00:40:37,490 --> 00:40:36,300

emphasize I think that is one of the

829

00:40:40,370 --> 00:40:37,500

places

830

00:40:44,210 --> 00:40:40,380

that Human Society has really gone wrong

831

00:40:46,790 --> 00:40:44,220

which is reinforcing mostly because of

832

00:40:50,329 --> 00:40:46,800

the influence of Descartes this notion

833

00:40:53,750 --> 00:40:50,339

that mind and matter are separate and

834

00:40:57,589 --> 00:40:53,760

boom does a beautiful job in a 1990

835

00:40:59,390 --> 00:40:57,599

paper in explaining why from his point

836

00:41:02,569 --> 00:40:59,400

of view and from the point of view of

837

00:41:04,790 --> 00:41:02,579

what he refers to as his ontological or

838

00:41:05,810 --> 00:41:04,800

causal interpretation of the quantum

839

00:41:09,170 --> 00:41:05,820

theory

840

00:41:14,150 --> 00:41:09,180

why mind and matter are inseparable

841

00:41:16,609 --> 00:41:14,160

and he I one of the statements that Beau

842

00:41:19,790 --> 00:41:16,619

made that I read you know probably over

843

00:41:22,910 --> 00:41:19,800

30 years ago but this just stuck with me

844

00:41:25,790 --> 00:41:22,920

oh there's a great picture of him I just

845

00:41:27,530 --> 00:41:25,800

a true Gina he and ramanu John the

846

00:41:30,650 --> 00:41:27,540

mathematician as far as I'm concerned

847

00:41:32,630 --> 00:41:30,660

are probably the two most genius people

848

00:41:36,829 --> 00:41:32,640

have ever existed

849

00:41:39,730 --> 00:41:36,839

um but he made a statement which is that

850

00:41:41,990 --> 00:41:39,740

even rocks have a type of

851

00:41:44,329 --> 00:41:42,000

proto-consciousness and I remember

852

00:41:47,710 --> 00:41:44,339

reading that over 30 years ago and being

853

00:41:51,829 --> 00:41:47,720

you know that having a really a wild

854

00:41:53,630 --> 00:41:51,839

moment when I read that statement and it

855

00:41:58,130 --> 00:41:53,640

does open up a lot of possibilities

856

00:42:00,650 --> 00:41:58,140

because for for boom mind and matter are

857

00:42:04,450 --> 00:42:00,660

not absolutes there's no substance dual

858

00:42:09,349 --> 00:42:04,460

substance dualism there it's a Continuum

859

00:42:12,470 --> 00:42:09,359

between it's like a magnet and one pole

860

00:42:14,930 --> 00:42:12,480

is more mental and the other pull is

861

00:42:17,270 --> 00:42:14,940

more material but essentially he

862

00:42:18,410 --> 00:42:17,280

explains how that whole thing is a

863

00:42:21,530 --> 00:42:18,420

continuum

864

00:42:23,630 --> 00:42:21,540

and and so it does open up a lot of

865

00:42:25,849 --> 00:42:23,640

possibilities for how we think about

866

00:42:28,790 --> 00:42:25,859

life and the nature of life and what is

867

00:42:32,150 --> 00:42:28,800

life and what is existence

868

00:42:34,490 --> 00:42:32,160

and and so anyway

869

00:42:36,829 --> 00:42:34,500

that was a lot so I'll just leave it

870

00:42:38,450 --> 00:42:36,839

there for you oh no no that's and you

871

00:42:39,650 --> 00:42:38,460

said you were going to circle back to

872

00:42:43,910 --> 00:42:39,660

some

873

00:42:47,450 --> 00:42:43,920

uh well maybe you know one one one thing

874

00:42:50,990 --> 00:42:47,460

I I I might want to do here just to make

875

00:42:53,270 --> 00:42:51,000

it clear because so many

876

00:42:55,849 --> 00:42:53,280

um I've noticed there's been a lot of

877

00:42:59,270 --> 00:42:55,859

Confusion And it certainly makes sense

878

00:43:02,450 --> 00:42:59,280

there's so much confusion because DOD

879

00:43:05,450 --> 00:43:02,460

has changed acronyms and there's this

880

00:43:08,569 --> 00:43:05,460

confusion about what's going on at DOD

881

00:43:11,270 --> 00:43:08,579

on the one hand and what's going on at

882

00:43:13,490 --> 00:43:11,280

the level of an ndaa which is an

883

00:43:17,270 --> 00:43:13,500

National Defense and authorization act

884

00:43:20,150 --> 00:43:17,280

and how those two things go together

885

00:43:21,710 --> 00:43:20,160

um you know obviously the ndaa being a

886

00:43:23,890 --> 00:43:21,720

piece of legislation and so that's

887

00:43:27,170 --> 00:43:23,900

driven by Congress on the one side

888

00:43:30,650 --> 00:43:27,180

whereas what we see on the other side is

889

00:43:32,030 --> 00:43:30,660

being driven by DOD and odni which is

890

00:43:34,730 --> 00:43:32,040

the office of Director of National

891

00:43:38,569 --> 00:43:34,740

Intelligence so I thought it would it

892

00:43:43,250 --> 00:43:38,579

might just make a little sense to say so

893

00:43:47,710 --> 00:43:43,260

the uaptf death was started in August of

894

00:43:51,410 --> 00:43:47,720

2020 and then in November of

895

00:43:54,170 --> 00:43:51,420

2021 what was established by the U.S

896

00:43:57,109 --> 00:43:54,180

government was what was called the well

897

00:44:00,290 --> 00:43:57,119

the acronym was aoi MSG which is

898

00:44:02,510 --> 00:44:00,300

completely unpronounceable I I tried to

899

00:44:04,490 --> 00:44:02,520

practice pronouncing it before I'm like

900

00:44:07,069 --> 00:44:04,500

you candy it's just you can't pronounce

901
00:44:08,650 --> 00:44:07,079
it but it is the Airborne object

902
00:44:11,750 --> 00:44:08,660
identification and management

903
00:44:15,410 --> 00:44:11,760
synchronization group that's right and

904
00:44:18,170 --> 00:44:15,420
so and also there was a um

905
00:44:20,630 --> 00:44:18,180
uh an executive Council also so in

906
00:44:23,870 --> 00:44:20,640
November 2021

907
00:44:26,450 --> 00:44:23,880
that was established and a lot of people

908
00:44:31,670 --> 00:44:26,460
don't realize that in the press release

909
00:44:36,650 --> 00:44:31,680
of November 23 of 2021 announcing the

910
00:44:39,230 --> 00:44:36,660
formation of aoi MSG it also announced

911
00:44:42,170 --> 00:44:39,240
immediate establishment of the task

912
00:44:45,230 --> 00:44:42,180
force so for example I've heard some

913
00:44:47,329 --> 00:44:45,240

people say oh you know now there's a

914

00:44:50,150 --> 00:44:47,339

task force a Navy task force on one side

915

00:44:51,410 --> 00:44:50,160

and then there's one to note the task

916

00:44:53,690 --> 00:44:51,420

force

917

00:44:58,250 --> 00:44:53,700

cease to exist

918

00:45:01,609 --> 00:44:58,260

when aoimsg came into being but then

919

00:45:04,569 --> 00:45:01,619

that got a little confusing because

920

00:45:08,390 --> 00:45:04,579

um in July of 2022

921

00:45:10,670 --> 00:45:08,400

aoimsg was renamed and it became then

922

00:45:14,030 --> 00:45:10,680

the all domain anomaly resolution

923

00:45:16,970 --> 00:45:14,040

officer arrow that we have now right so

924

00:45:21,170 --> 00:45:16,980

that was just a renaming and a

925

00:45:24,109 --> 00:45:21,180

broadening of scope and I've also heard

926
00:45:26,990 --> 00:45:24,119
people be confused by the the word in

927
00:45:28,970 --> 00:45:27,000
their domain so I heard

928
00:45:31,849 --> 00:45:28,980
um two podcasters I won't mention who

929
00:45:34,430 --> 00:45:31,859
but quite um prominent podcasters are

930
00:45:36,829 --> 00:45:34,440
like oh domain must mean different

931
00:45:38,569 --> 00:45:36,839
geographical regions of the world like

932
00:45:41,390 --> 00:45:38,579
the Middle East or Asia no it doesn't

933
00:45:45,470 --> 00:45:41,400
mean that at all it means you know air

934
00:45:47,990 --> 00:45:45,480
land sea the the dod domains right so

935
00:45:52,069 --> 00:45:48,000
now we have Arrow which is headed out by

936
00:45:55,250 --> 00:45:52,079
Dr Sean Kirkpatrick right and then just

937
00:45:58,130 --> 00:45:55,260
to keep everybody on their their toes

938
00:45:59,990 --> 00:45:58,140

um on December 17 just a few weeks ago

939

00:46:05,510 --> 00:46:00,000

2022

940

00:46:09,410 --> 00:46:05,520

the UAP acronym was renamed so what used

941

00:46:12,530 --> 00:46:09,420

to be unidentified aerial phenomenon are

942

00:46:16,130 --> 00:46:12,540

now unidentified anomalous phenomenon

943

00:46:18,370 --> 00:46:16,140

and that is to bring the acronym into

944

00:46:22,190 --> 00:46:18,380

alignment with the name of the office

945

00:46:23,450 --> 00:46:22,200

which is all domain anomaly resolution

946

00:46:24,950 --> 00:46:23,460

office

947

00:46:26,390 --> 00:46:24,960

so

948

00:46:28,430 --> 00:46:26,400

you know

949

00:46:30,650 --> 00:46:28,440

that's sort of what's happened in the

950

00:46:33,950 --> 00:46:30,660

progression of of the task force the

951
00:46:36,829 --> 00:46:33,960
office the acronyms on the one side but

952
00:46:40,490 --> 00:46:36,839
what's confusing for a lot of people is

953
00:46:43,970 --> 00:46:40,500
because it's confusing is that at the

954
00:46:47,210 --> 00:46:43,980
same time that DOD is going through

955
00:46:51,250 --> 00:46:47,220
these permutations and adjustments and

956
00:46:55,069 --> 00:46:51,260
shifts Congress is also driving its own

957
00:46:58,250 --> 00:46:55,079
agenda through the ndaa legislation and

958
00:47:04,130 --> 00:46:58,260
so you you had in the ndaa for fiscal

959
00:47:08,450 --> 00:47:04,140
year 2022 you had in six uh section 1683

960
00:47:13,010 --> 00:47:08,460
first the establishment of the office to

961
00:47:15,770 --> 00:47:13,020
address UAP and what was

962
00:47:18,710 --> 00:47:15,780
frustrating for some people was that it

963
00:47:22,250 --> 00:47:18,720

was almost as if DOD front kind of got

964

00:47:25,250 --> 00:47:22,260

out ahead of that by announcing its

965

00:47:26,870 --> 00:47:25,260

office before the ndaa was passed and

966

00:47:28,309 --> 00:47:26,880

but there was some realignment and

967

00:47:31,790 --> 00:47:28,319

that's got you know everything was

968

00:47:34,849 --> 00:47:31,800

smoothed over and then now in the ndaa

969

00:47:39,230 --> 00:47:34,859

for fiscal year 2023 which was just

970

00:47:42,410 --> 00:47:39,240

passed you have new reporting procedures

971

00:47:45,109 --> 00:47:42,420

for the new acronym unidentified

972

00:47:48,589 --> 00:47:45,119

anomalous phenomenon so you know I just

973

00:47:51,290 --> 00:47:48,599

I just feel a almost like a Civic

974

00:47:53,990 --> 00:47:51,300

obligation to kind of go through that

975

00:47:56,630 --> 00:47:54,000

yeah very clear because it is very

976
00:47:58,910 --> 00:47:56,640
complicated and especially at a European

977
00:48:00,829 --> 00:47:58,920
colleague say to me like what are you

978
00:48:04,670 --> 00:48:00,839
talking like I don't get the acronyms

979
00:48:07,910 --> 00:48:04,680
you know in and there is a tendency I

980
00:48:11,150 --> 00:48:07,920
think sometimes for people who are not

981
00:48:13,010 --> 00:48:11,160
familiar with the American system you

982
00:48:14,270 --> 00:48:13,020
know they might hear Congress do one

983
00:48:16,490 --> 00:48:14,280
thing and then they think that's the

984
00:48:18,250 --> 00:48:16,500
whole US Government approach when it's

985
00:48:20,390 --> 00:48:18,260
not you know there's kind of this

986
00:48:23,870 --> 00:48:20,400
jockeying and how are we going to handle

987
00:48:27,050 --> 00:48:23,880
the topic with DOD and odni on one side

988
00:48:29,150 --> 00:48:27,060

and and Congress kind of over here so

989

00:48:31,970 --> 00:48:29,160

yeah I'm glad thank you for letting me

990

00:48:34,309 --> 00:48:31,980

get that all out well I appreciate it uh

991

00:48:37,490 --> 00:48:34,319

that that was really good information I

992

00:48:40,309 --> 00:48:37,500

remember when that very long I forget

993

00:48:42,170 --> 00:48:40,319

exactly but I mean wow there you can't

994

00:48:46,609 --> 00:48:42,180

really have an acronym for that one very

995

00:48:49,550 --> 00:48:46,619

easily uh uh but now it's it's Arrow I

996

00:48:51,710 --> 00:48:49,560

guess or Arrow however that you know

997

00:48:55,190 --> 00:48:51,720

some say but very interesting I'll stick

998

00:48:57,050 --> 00:48:55,200

with the uh acronym UFO myself but it

999

00:48:59,089 --> 00:48:57,060

works that works good enough because I

1000

00:49:00,950 --> 00:48:59,099

heard uh you know someone say

1001

00:49:03,530 --> 00:49:00,960

when someone asks you

1002

00:49:05,930 --> 00:49:03,540

what is a UAP or you're going to say

1003

00:49:08,329 --> 00:49:05,940

well it's a UFO but you know I mean the

1004

00:49:10,210 --> 00:49:08,339

reason that term there's shy away from

1005

00:49:13,790 --> 00:49:10,220

it is because people have associated

1006

00:49:15,950 --> 00:49:13,800

associated it with you know uh The Nut

1007

00:49:17,930 --> 00:49:15,960

Cases saying that it's extraterrestrial

1008

00:49:20,870 --> 00:49:17,940

and in their words I'm not saying people

1009

00:49:22,790 --> 00:49:20,880

or Nut Cases I'm just saying that that

1010

00:49:25,250 --> 00:49:22,800

is why they wanted to get away from that

1011

00:49:27,710 --> 00:49:25,260

it's because the connotation of UFO

1012

00:49:29,870 --> 00:49:27,720

meaning alien but it doesn't really it

1013

00:49:31,069 --> 00:49:29,880

just means unidentified it's just a lot

1014

00:49:32,450 --> 00:49:31,079

of people will

1015

00:49:34,609 --> 00:49:32,460

um you know will put the two together

1016

00:49:35,450 --> 00:49:34,619

and speaking of that

1017

00:49:38,809 --> 00:49:35,460

um

1018

00:49:40,730 --> 00:49:38,819

for you Massimo the uh

1019

00:49:42,230 --> 00:49:40,740

a lot of Skeptics have said that I've

1020

00:49:44,270 --> 00:49:42,240

had on the show over the years and one

1021

00:49:47,630 --> 00:49:44,280

of them being Seth straw stack from seti

1022

00:49:50,390 --> 00:49:47,640

but uh they're they just talk about the

1023

00:49:52,490 --> 00:49:50,400

you know the space and I understand how

1024

00:49:53,870 --> 00:49:52,500

far away the nearest star is in

1025

00:49:56,450 --> 00:49:53,880

comparison

1026

00:50:00,650 --> 00:49:56,460

um I've said this before if you were in

1027

00:50:03,050 --> 00:50:00,660

Washington DC and you had uh the Sun the

1028

00:50:05,329 --> 00:50:03,060

size of a grapefruit the Earth would be

1029

00:50:06,849 --> 00:50:05,339

the size of a ballpoint pen and the

1030

00:50:10,130 --> 00:50:06,859

nearest star would be in San Francisco

1031

00:50:14,030 --> 00:50:10,140

so that kind of gives you kind of an uh

1032

00:50:15,410 --> 00:50:14,040

an idea of what the vast vast distances

1033

00:50:18,050 --> 00:50:15,420

are

1034

00:50:20,150 --> 00:50:18,060

um but I I've said this to other people

1035

00:50:22,010 --> 00:50:20,160

and I just want your opinion because

1036

00:50:23,569 --> 00:50:22,020

people will argue Skeptics will say

1037

00:50:26,450 --> 00:50:23,579

there's no way they could ever get here

1038

00:50:28,910 --> 00:50:26,460

in a lifetime and et cetera Etc perhaps

1039

00:50:30,589 --> 00:50:28,920

there's something in physics or some

1040

00:50:33,829 --> 00:50:30,599

other way of traveling

1041

00:50:35,390 --> 00:50:33,839

that they don't have to go through

1042

00:50:37,390 --> 00:50:35,400

that and I just wonder what your

1043

00:50:41,990 --> 00:50:37,400

thoughts were on that yeah

1044

00:50:45,410 --> 00:50:42,000

there are two ways to do

1045

00:50:49,329 --> 00:50:45,420

um to be able to cross uh so long

1046

00:50:53,510 --> 00:50:49,339

distances one way is the slow one

1047

00:50:57,349 --> 00:50:53,520

using a solar sales for instance yes or

1048

00:50:59,990 --> 00:50:57,359

microwave sales or anti matter

1049

00:51:03,950 --> 00:51:00,000

antimatter propulsion so the

1050

00:51:07,370 --> 00:51:03,960

articulation process generates uh the

1051
00:51:10,069 --> 00:51:07,380
push at the very high speed uh fraction

1052
00:51:12,309 --> 00:51:10,079
of the speed of light that is possible

1053
00:51:16,150 --> 00:51:12,319
and it's anyway slow

1054
00:51:21,790 --> 00:51:16,160
you presume that they are very big arcs

1055
00:51:26,290 --> 00:51:21,800
that contains all living beings or a

1056
00:51:31,309 --> 00:51:26,300
automata or robots or

1057
00:51:35,089 --> 00:51:31,319
biological samples to be grown Once on

1058
00:51:37,930 --> 00:51:35,099
This arrived at destination so it's very

1059
00:51:41,390 --> 00:51:37,940
slow it can take thousands of years okay

1060
00:51:46,190 --> 00:51:41,400
but yet there are some kind of like

1061
00:51:50,650 --> 00:51:46,200
artificial planetoid where very big way

1062
00:51:55,250 --> 00:51:50,660
according to the diesel hypothesis

1063
00:51:57,290 --> 00:51:55,260

inside which people live have an

1064

00:52:01,609 --> 00:51:57,300

artificial

1065

00:52:06,230 --> 00:52:01,619

life and um and physicist American

1066

00:52:08,030 --> 00:52:06,240

physicists in the 70s Gerardo Neil was

1067

00:52:10,849 --> 00:52:08,040

already able to

1068

00:52:12,410 --> 00:52:10,859

um think about colonies the space

1069

00:52:15,650 --> 00:52:12,420

colonies

1070

00:52:18,829 --> 00:52:15,660

um around Earth or around the Moon that

1071

00:52:20,930 --> 00:52:18,839

can contain up to 1 million uh

1072

00:52:24,650 --> 00:52:20,940

inhabitants and where you can

1073

00:52:28,250 --> 00:52:24,660

reconstruct Earth-like Landscapes inside

1074

00:52:30,170 --> 00:52:28,260

okay so it's possible that there are

1075

00:52:34,490 --> 00:52:30,180

these artificial planetoid that have

1076
00:52:38,690 --> 00:52:34,500
been sent away the reason could be that

1077
00:52:42,710 --> 00:52:38,700
their planet was in danger because their

1078
00:52:47,630 --> 00:52:42,720
star is about to become an a giant red

1079
00:52:48,609 --> 00:52:47,640
giant during its nuclear Evolution so it

1080
00:52:51,950 --> 00:52:48,619
would

1081
00:52:54,589 --> 00:52:51,960
engulf all the their solar system so

1082
00:52:57,890 --> 00:52:54,599
it's time to go away okay so that is a

1083
00:53:00,109 --> 00:52:57,900
possibility the other one the most uh

1084
00:53:03,349 --> 00:53:00,119
I would say science fiction we want to

1085
00:53:06,710 --> 00:53:03,359
call comes in reality from uh

1086
00:53:11,450 --> 00:53:06,720
um it's a consequence of the one of the

1087
00:53:14,990 --> 00:53:11,460
solutions of Einstein field equation uh

1088
00:53:17,750 --> 00:53:15,000

so-called Einstein Rose and Bridge which

1089

00:53:19,630 --> 00:53:17,760

is the technical name to name mesh

1090

00:53:22,010 --> 00:53:19,640

called war or

1091

00:53:27,170 --> 00:53:22,020

a way to

1092

00:53:31,270 --> 00:53:27,180

uh to make a role in space-time and pass

1093

00:53:34,250 --> 00:53:31,280

from a point to another with no danger

1094

00:53:35,290 --> 00:53:34,260

and it's not a black hole it's something

1095

00:53:39,309 --> 00:53:35,300

else

1096

00:53:43,490 --> 00:53:39,319

but to obtain that

1097

00:53:45,530 --> 00:53:43,500

you need a lot of energy which is called

1098

00:53:46,809 --> 00:53:45,540

the negative energy which is taken from

1099

00:53:50,589 --> 00:53:46,819

the vacuum

1100

00:53:54,710 --> 00:53:50,599

for instance if you want to keep a mouth

1101
00:54:00,470 --> 00:53:54,720
of this form of opened a mouse that is

1102
00:54:04,849 --> 00:54:00,480
uh I want to say a five inch of diameter

1103
00:54:08,809 --> 00:54:04,859
open for one second in order to make it

1104
00:54:12,710 --> 00:54:08,819
a mouse pass from my side to the other

1105
00:54:13,970 --> 00:54:12,720
you would need the same energy that is

1106
00:54:14,770 --> 00:54:13,980
the

1107
00:54:18,349 --> 00:54:14,780
um

1108
00:54:21,290 --> 00:54:18,359
energy that corresponds to the mass of

1109
00:54:24,410 --> 00:54:21,300
our planet so it's an enormous quantity

1110
00:54:27,670 --> 00:54:24,420
of energy that the only

1111
00:54:32,150 --> 00:54:27,680
um how to say Superman intelligence can

1112
00:54:33,309 --> 00:54:32,160
create or that it's possible that and

1113
00:54:37,370 --> 00:54:33,319

due to Natural

1114

00:54:40,670 --> 00:54:37,380

reasons the universe is full of these

1115

00:54:44,089 --> 00:54:40,680

War models and on these tunnels where

1116

00:54:47,270 --> 00:54:44,099

when you enter a you have a short way to

1117

00:54:50,210 --> 00:54:47,280

to go wherever you want but anyway you

1118

00:54:53,809 --> 00:54:50,220

have to use conventional methods to go

1119

00:54:55,549 --> 00:54:53,819

to the gate and then you jump in but

1120

00:54:59,349 --> 00:54:55,559

it's physically it's it's a possibility

1121

00:55:01,670 --> 00:54:59,359

okay uh only a few

1122

00:55:03,829 --> 00:55:01,680

civilization can do that

1123

00:55:05,030 --> 00:55:03,839

well thank you both so much we're out of

1124

00:55:07,190 --> 00:55:05,040

time I know you have a call with the

1125

00:55:08,690 --> 00:55:07,200

Galileo project coming right up but I

1126

00:55:11,089 --> 00:55:08,700

want to thank you both so much it's been

1127

00:55:13,309 --> 00:55:11,099

fascinating I really love it and the

1128

00:55:15,049 --> 00:55:13,319

book is out there when this airs the

1129

00:55:16,510 --> 00:55:15,059

book will be out there and paperback and

1130

00:55:19,370 --> 00:55:16,520

get that on Amazon

1131

00:55:22,670 --> 00:55:19,380

extraterrestrial intelligence academic

1132

00:55:24,290 --> 00:55:22,680

and social implications and I will have

1133

00:55:27,730 --> 00:55:24,300

a link to that in the show notes thank

1134

00:55:30,530 --> 00:55:27,740

you both so much thank you thank you

1135

00:55:32,270 --> 00:55:30,540

all right take care now

1136

00:55:34,549 --> 00:55:32,280

all right everyone we'll be back next

1137

00:55:35,090 --> 00:55:34,559

week and remember to keep your eyes to

1138

00:55:46,370 --> 00:55:35,100

the sky