

FROM NOTHING

TO EVERYTHING

#PaCE1



1
00:00:03,409 --> 00:00:02,090
this year we hosted the first iteration

2
00:00:05,150 --> 00:00:03,419
of a physics and Consciousness

3
00:00:08,210 --> 00:00:05,160
explication challenge this is where

4
00:00:09,950 --> 00:00:08,220
brilliant.org pitched in 1000 USD to

5
00:00:12,470 --> 00:00:09,960
each of the top five entries totaling

6
00:00:14,870 --> 00:00:12,480
five thousand dollars we received such a

7
00:00:16,369 --> 00:00:14,880
rich volume of explanatory videos from

8
00:00:18,529 --> 00:00:16,379
you which were designed to Showcase

9
00:00:20,689 --> 00:00:18,539
theories explanations rigorous

10
00:00:22,189 --> 00:00:20,699
expository material in general as to

11
00:00:23,929 --> 00:00:22,199
what lies at the fundamentals of our

12
00:00:25,849 --> 00:00:23,939
reality entrants were encouraged to go

13
00:00:27,710 --> 00:00:25,859

over a theory of their own or to expand

14

00:00:29,089 --> 00:00:27,720

either an application or the details of

15

00:00:30,950 --> 00:00:29,099

a theory that they were particularly

16

00:00:32,810 --> 00:00:30,960

fond of in the last two months there's

17

00:00:35,030 --> 00:00:32,820

been a market increase in the attention

18

00:00:36,590 --> 00:00:35,040

to a wide variety of small channels due

19

00:00:38,030 --> 00:00:36,600

to this challenge considering that the

20

00:00:39,830 --> 00:00:38,040

vast majority of the entrants were

21

00:00:41,389 --> 00:00:39,840

uploaded to nascent channels where the

22

00:00:43,490 --> 00:00:41,399

entry was among the first or the second

23

00:00:44,990 --> 00:00:43,500

videos uploaded it warmed my heart it

24

00:00:46,729 --> 00:00:45,000

still warms my heart that such an

25

00:00:48,410 --> 00:00:46,739

extensive amount of people chose to take

26

00:00:50,090 --> 00:00:48,420

part in this again the point of this

27

00:00:52,010 --> 00:00:50,100

challenge isn't to win what the heck

28

00:00:53,389 --> 00:00:52,020

does winning mean anyway but instead to

29

00:00:54,889 --> 00:00:53,399

serve as encouragement for those who are

30

00:00:56,869 --> 00:00:54,899

on the periphery of wanting to produce

31

00:00:59,029 --> 00:00:56,879

content in this space but lack that last

32

00:01:01,189 --> 00:00:59,039

modicum of a nudge in order to evaluate

33

00:01:02,869 --> 00:01:01,199

the entries as a first pass we ran a

34

00:01:04,430 --> 00:01:02,879

peer review process where an algorithm

35

00:01:06,170 --> 00:01:04,440

would feed participants different videos

36

00:01:07,789 --> 00:01:06,180

to compare and they'd be asked to vote

37

00:01:09,710 --> 00:01:07,799

on which one more aptly fits the

38

00:01:11,390 --> 00:01:09,720

criteria about to be listed as well as

39

00:01:13,250 --> 00:01:11,400

their own preference there are so many

40

00:01:14,570 --> 00:01:13,260

entries I thought maybe 10 people would

41

00:01:16,190 --> 00:01:14,580

partake in this I remember telling

42

00:01:18,109 --> 00:01:16,200

brilliant like this is going to be not

43

00:01:20,210 --> 00:01:18,119

terribly successful it's a test it's an

44

00:01:21,950 --> 00:01:20,220

experiment we like to innovate a toll on

45

00:01:24,050 --> 00:01:21,960

most of what's inventive or attempts to

46

00:01:25,670 --> 00:01:24,060

be inventive or most of what's new fails

47

00:01:28,149 --> 00:01:25,680

at its first attempt second even third

48

00:01:30,530 --> 00:01:28,159

however we received over 50 submissions

49

00:01:32,690 --> 00:01:30,540

superlative submissions they were well

50

00:01:34,490 --> 00:01:32,700

constructed they were engaging clearly

51
00:01:36,830 --> 00:01:34,500
the videos took an arduous amount of

52
00:01:39,350 --> 00:01:36,840
work like geez Louise thus we firstly

53
00:01:41,149 --> 00:01:39,360
and formlessly thank everyone for all

54
00:01:43,010 --> 00:01:41,159
the work that they put in and while we

55
00:01:44,990 --> 00:01:43,020
did promise to select five winners hey

56
00:01:46,370 --> 00:01:45,000
this sounds so cheesy but you all are

57
00:01:47,510 --> 00:01:46,380
winners there's a playlist on the

58
00:01:49,370 --> 00:01:47,520
channel right now where you can go and

59
00:01:51,170 --> 00:01:49,380
you can look at all the entries to

60
00:01:53,389 --> 00:01:51,180
choose winners Sam and I both spent

61
00:01:54,950 --> 00:01:53,399
several weeks giving a thorough look at

62
00:01:56,510 --> 00:01:54,960
the entries this was after the peer

63
00:01:58,550 --> 00:01:56,520

review process and we also recruited

64

00:02:00,350 --> 00:01:58,560

other researchers and academics who are

65

00:02:02,270 --> 00:02:00,360

in the relevant field to help make that

66

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

decision and by the way there will be

67

00:02:06,709 --> 00:02:04,619

plenty more of these contests these

68

00:02:08,510 --> 00:02:06,719

challenges these encouragements to help

69

00:02:10,249 --> 00:02:08,520

further the understanding of mathematics

70

00:02:11,990 --> 00:02:10,259

Consciousness physics theories of

71

00:02:13,490 --> 00:02:12,000

everything in general this is just the

72

00:02:14,690 --> 00:02:13,500

beginning let's get on to the criteria

73

00:02:16,369 --> 00:02:14,700

one of the goals was to create an

74

00:02:18,229 --> 00:02:16,379

atmosphere conducive to innovation

75

00:02:19,850 --> 00:02:18,239

without becoming stymied by various

76

00:02:21,530 --> 00:02:19,860

factors we wanted to highlight the

77

00:02:24,530 --> 00:02:21,540

fields and the ideas and the top five

78

00:02:26,449 --> 00:02:24,540

entries are less about winning and more

79

00:02:28,610 --> 00:02:26,459

about clearly demonstrating a capacity

80

00:02:30,229 --> 00:02:28,620

to explain Concepts have fun while doing

81

00:02:32,210 --> 00:02:30,239

so and make it fun for the audience as

82

00:02:34,130 --> 00:02:32,220

well the first Criterion was a

83

00:02:35,330 --> 00:02:34,140

complexity to clearness ratio it'd be

84

00:02:37,010 --> 00:02:35,340

great if we had something that was

85

00:02:39,110 --> 00:02:37,020

extremely complex explained extremely

86

00:02:41,690 --> 00:02:39,120

clearly the second was we encouraged

87

00:02:43,850 --> 00:02:41,700

Advanced topics and the third was the

88

00:02:44,930 --> 00:02:43,860

video's engaging characteristics so this

89

00:02:46,790 --> 00:02:44,940

is much more of a subjective

90

00:02:48,710 --> 00:02:46,800

consideration we intended to keep in the

91

00:02:50,990 --> 00:02:48,720

filmmaker's term of production value and

92

00:02:54,050 --> 00:02:51,000

look for it to be high or medium to high

93

00:02:55,790 --> 00:02:54,060

that is 4K or 1080p proper sound edited

94

00:02:57,110 --> 00:02:55,800

moderately well and we have to modulo

95

00:02:58,729 --> 00:02:57,120

that with knowing that this is some of

96

00:03:01,610 --> 00:02:58,739

the entry's first video that they're

97

00:03:03,290 --> 00:03:01,620

producing the fourth was rigor such that

98

00:03:04,729 --> 00:03:03,300

the presentation was not hand wavy

99

00:03:07,070 --> 00:03:04,739

there's an encouragement of the use of

100

00:03:09,710 --> 00:03:07,080

diagrams and logic and cogency equations

101
00:03:13,250 --> 00:03:09,720
they were prioritized in fact Fifth and

102
00:03:14,930 --> 00:03:13,260
finally was the ah I see Factor this is

103
00:03:16,670 --> 00:03:14,940
the aspect of some explainers where you

104
00:03:18,410 --> 00:03:16,680
know where you want to end up so point B

105
00:03:20,630 --> 00:03:18,420
is explained and point a is where you

106
00:03:22,190 --> 00:03:20,640
start then you have some route and often

107
00:03:23,930 --> 00:03:22,200
it's circuitous but then the different

108
00:03:28,190 --> 00:03:23,940
elements line up such that by the end

109
00:03:30,949 --> 00:03:28,200
you say ah okay I see I understand now

110
00:03:33,710 --> 00:03:30,959
let us begin with the honorable mentions

111
00:03:36,290 --> 00:03:33,720
first up is the ctmu in five questions

112
00:03:38,330 --> 00:03:36,300
by just here for Theo the cognitive

113
00:03:39,710 --> 00:03:38,340

theoretic model of the universe is a

114

00:03:41,990 --> 00:03:39,720

philosophical theory developed by Chris

115

00:03:43,490 --> 00:03:42,000

Langan the ctm new posits that the

116

00:03:45,410 --> 00:03:43,500

universe is a self-contained

117

00:03:47,570 --> 00:03:45,420

self-generating system of thought and

118

00:03:49,670 --> 00:03:47,580

experience in that reality can be

119

00:03:51,649 --> 00:03:49,680

understood as a comprehensive closed

120

00:03:53,809 --> 00:03:51,659

system of all and only that which is

121

00:03:55,729 --> 00:03:53,819

real the theory asserts the feedback is

122

00:03:57,649 --> 00:03:55,739

the invariant principle of reality and

123

00:03:59,809 --> 00:03:57,659

that reality has a scalable ontology

124

00:04:02,210 --> 00:03:59,819

implying the presence of a fundamental

125

00:04:03,589 --> 00:04:02,220

order the ctmu also integrates various

126

00:04:05,809 --> 00:04:03,599

branches of knowledge including

127

00:04:07,850 --> 00:04:05,819

mathematics physics metaphysics and

128

00:04:10,309 --> 00:04:07,860

philosophy into a coherent unified

129

00:04:11,750 --> 00:04:10,319

worldview the ultimate aim of the ctmu

130

00:04:13,190 --> 00:04:11,760

is to provide a comprehensive

131

00:04:15,050 --> 00:04:13,200

understanding of reality that

132

00:04:16,670 --> 00:04:15,060

encompasses all that is real and

133

00:04:18,590 --> 00:04:16,680

explains the relationship between

134

00:04:20,569 --> 00:04:18,600

Consciousness thought in the universe

135

00:04:22,490 --> 00:04:20,579

the system is characterized by a sense

136

00:04:25,430 --> 00:04:22,500

of closure and demonstrates the idea

137

00:04:27,290 --> 00:04:25,440

that reality has a scalable ontology the

138

00:04:28,909 --> 00:04:27,300

author presents a clear and easy to

139

00:04:31,930 --> 00:04:28,919

follow exploration of the premise

140

00:04:34,430 --> 00:04:31,940

leading to a well-articulated conclusion

141

00:04:37,310 --> 00:04:34,440

regularity in non-standard models of

142

00:04:39,530 --> 00:04:37,320

arithmetic by Nicholas Nicholas seated

143

00:04:41,689 --> 00:04:39,540

regally with the radiant neon heart as

144

00:04:43,670 --> 00:04:41,699

his backdrop delves into the Axiom of

145

00:04:45,890 --> 00:04:43,680

foundation in standard set theory

146

00:04:47,689 --> 00:04:45,900

offering a fresh perspective by

147

00:04:50,390 --> 00:04:47,699

revisiting it as a rule that governs

148

00:04:52,070 --> 00:04:50,400

sets which exclude themselves he then

149

00:04:54,350 --> 00:04:52,080

builds upon this Foundation along with

150

00:04:56,210 --> 00:04:54,360

piano arithmetic to explore the

151

00:04:58,730 --> 00:04:56,220

Practical applications of arithmetic

152

00:05:01,370 --> 00:04:58,740

induction in his insightful examination

153

00:05:03,290 --> 00:05:01,380

nicholish posits that minimal element

154

00:05:05,090 --> 00:05:03,300

statements correspond to a principle

155

00:05:07,730 --> 00:05:05,100

that underscores the interconnectedness

156

00:05:09,890 --> 00:05:07,740

of all systems and set theory is the key

157

00:05:11,870 --> 00:05:09,900

to understanding these connections after

158

00:05:13,550 --> 00:05:11,880

meticulous deliberation the author

159

00:05:16,010 --> 00:05:13,560

presents a comprehensive and easily

160

00:05:19,010 --> 00:05:16,020

digestible conclusion centered around a

161

00:05:20,510 --> 00:05:19,020

non-standard model of physics rooted in

162

00:05:22,909 --> 00:05:20,520

piano arithmetic

163

00:05:24,469 --> 00:05:22,919

how I stumbled upon the best Theory of

164

00:05:26,029 --> 00:05:24,479

Everything yet by the means of

165

00:05:28,129 --> 00:05:26,039

Destruction in this video the

166

00:05:30,590 --> 00:05:28,139

intricacies of the hyperbolic Figure 8

167

00:05:32,870 --> 00:05:30,600

knot in its complement are meticulously

168

00:05:35,210 --> 00:05:32,880

dissected a guest on the show with an

169

00:05:37,969 --> 00:05:35,220

intuition reminiscent of Einstein offers

170

00:05:40,249 --> 00:05:37,979

a geometric solution to the elusive fine

171

00:05:41,629 --> 00:05:40,259

structure constant these findings have

172

00:05:43,550 --> 00:05:41,639

been verified through independent

173

00:05:45,650 --> 00:05:43,560

research efforts shedding light on the

174

00:05:46,969 --> 00:05:45,660

previously unknown Realms of scientific

175

00:05:49,550 --> 00:05:46,979

advancement

176

00:05:51,830 --> 00:05:49,560

an interconnected system of energy by

177

00:05:53,870 --> 00:05:51,840

hussam Wadi the articles in question

178

00:05:55,790 --> 00:05:53,880

delve into a conceptual framework of

179

00:05:58,189 --> 00:05:55,800

energy intriguing and worthy of

180

00:05:59,930 --> 00:05:58,199

consideration these imaginative models

181

00:06:01,610 --> 00:05:59,940

underpinned by a modest degree of

182

00:06:04,129 --> 00:06:01,620

mathematical intuition and a testable

183

00:06:06,409 --> 00:06:04,139

hypothesis hold the potential to enhance

184

00:06:08,810 --> 00:06:06,419

our comprehension of reality this series

185

00:06:10,969 --> 00:06:08,820

aspires to Foster foundation for

186

00:06:12,710 --> 00:06:10,979

exploratory musings through a sequence

187

00:06:14,629 --> 00:06:12,720

of hypothetical exercises and thought

188

00:06:16,189 --> 00:06:14,639

experiments rather than offering a

189

00:06:18,050 --> 00:06:16,199

comprehensive set of formal proofs

190

00:06:19,550 --> 00:06:18,060

utilizing techniques and methods

191

00:06:22,129 --> 00:06:19,560

commonly found in the development of

192

00:06:24,350 --> 00:06:22,139

robotic systems this paper Endeavors to

193

00:06:25,969 --> 00:06:24,360

unravel the intricacies of reality the

194

00:06:27,710 --> 00:06:25,979

illumination of the projections of light

195

00:06:30,050 --> 00:06:27,720

suggests the existence of a cosmic

196

00:06:32,629 --> 00:06:30,060

camera obscura which can be modeled

197

00:06:34,249 --> 00:06:32,639

using a pinhole camera Matrix this

198

00:06:36,230 --> 00:06:34,259

enables us to examine the structure

199

00:06:38,150 --> 00:06:36,240

through an alternative perspective and

200

00:06:40,189 --> 00:06:38,160

relate the layers of light projections

201
00:06:43,189 --> 00:06:40,199
to a deep restricted boltzmann Network

202
00:06:45,830 --> 00:06:43,199
representation of quantum information

203
00:06:47,330 --> 00:06:45,840
toe for Kurt by Alexi Alexi guides us

204
00:06:49,070 --> 00:06:47,340
through a captivating journey of nine

205
00:06:51,710 --> 00:06:49,080
books each delving into a different

206
00:06:54,170 --> 00:06:51,720
aspect of Consciousness and reality he

207
00:06:55,790 --> 00:06:54,180
covers topics ranging from influence in

208
00:06:58,370 --> 00:06:55,800
space and the liquid light state

209
00:07:00,710 --> 00:06:58,380
universe to the crystal of time the time

210
00:07:02,930 --> 00:07:00,720
Adam The Fifth Dimension and the physics

211
00:07:05,150 --> 00:07:02,940
of Love synchronicity he further

212
00:07:07,189 --> 00:07:05,160
explores the interplay between mind body

213
00:07:09,290 --> 00:07:07,199

and spirit and sheds light on the

214

00:07:11,689 --> 00:07:09,300

fascinating concept of a Vortex of

215

00:07:13,790 --> 00:07:11,699

creation although the author's theories

216

00:07:16,010 --> 00:07:13,800

may not be explicitly outlined in this

217

00:07:17,809 --> 00:07:16,020

video the sheer volume of research and

218

00:07:20,390 --> 00:07:17,819

consideration he has put into his ideas

219

00:07:22,610 --> 00:07:20,400

is worthy of recognition and merits a

220

00:07:23,809 --> 00:07:22,620

place among the honorable mentions it is

221

00:07:25,790 --> 00:07:23,819

highly recommended to go view the

222

00:07:28,450 --> 00:07:25,800

author's video and delve into this

223

00:07:30,710 --> 00:07:28,460

thought-provoking idea in the playlist

224

00:07:32,930 --> 00:07:30,720

jumping continuity Theory from Daniel

225

00:07:35,809 --> 00:07:32,940

Varga and Chris Leto's Theory

226

00:07:38,089 --> 00:07:35,819

Consciousness resonates and octaves like

227

00:07:40,610 --> 00:07:38,099

waves with an emphasis on the evolution

228

00:07:42,650 --> 00:07:40,620

of morphological patterns these two

229

00:07:44,689 --> 00:07:42,660

perspectives delve into the idea that

230

00:07:47,510 --> 00:07:44,699

intricate designs and complex systems

231

00:07:49,790 --> 00:07:47,520

arise from basic initial conditions

232

00:07:52,249 --> 00:07:49,800

Chris employs the illustration of

233

00:07:54,290 --> 00:07:52,259

cellular automata to encourage the

234

00:07:57,050 --> 00:07:54,300

audience to Envision a universe governed

235

00:08:00,050 --> 00:07:57,060

by fundamental fractal parameters such

236

00:08:02,270 --> 00:08:00,060

as sound light and frequency he posits

237

00:08:03,950 --> 00:08:02,280

that a structural parallel can be drawn

238

00:08:06,290 --> 00:08:03,960

between the composition of atoms and

239

00:08:08,390 --> 00:08:06,300

that of galaxies showcasing the

240

00:08:11,570 --> 00:08:08,400

Simplicity that underlies seemingly

241

00:08:15,170 --> 00:08:11,580

complex phenomena a unified theory of

242

00:08:16,790 --> 00:08:15,180

thermodynamics space-time in 2003 Guerra

243

00:08:19,010 --> 00:08:16,800

became convinced that the prevailing

244

00:08:21,170 --> 00:08:19,020

definition of heat was flawed in that it

245

00:08:23,570 --> 00:08:21,180

was actually space-time itself despite

246

00:08:25,850 --> 00:08:23,580

writing his ideas down and sending it to

247

00:08:28,610 --> 00:08:25,860

several prominent physicists by email in

248

00:08:30,170 --> 00:08:28,620

2009 its radical nature and the lack of

249

00:08:32,990 --> 00:08:30,180

evidence hindered its credibility

250

00:08:35,449 --> 00:08:33,000

however in 2018 a group of Chinese

251
00:08:37,430 --> 00:08:35,459
scientists independently validated one

252
00:08:40,070 --> 00:08:37,440
of guerra's predictions providing

253
00:08:42,350 --> 00:08:40,080
evidence for his hypothesis in the video

254
00:08:44,810 --> 00:08:42,360
the author comments on this experiment

255
00:08:47,090 --> 00:08:44,820
presenting its implications as a basis

256
00:08:49,610 --> 00:08:47,100
for a new model of space-time and a path

257
00:08:52,130 --> 00:08:49,620
towards a unified field Theory

258
00:08:54,170 --> 00:08:52,140
who are we where are we going by the

259
00:08:55,310 --> 00:08:54,180
channel knowing Sperry presents a unique

260
00:08:57,470 --> 00:08:55,320
perspective on the nature of

261
00:08:59,690 --> 00:08:57,480
Consciousness proposing a dimensionless

262
00:09:01,610 --> 00:08:59,700
mechanism at its core he posits that

263
00:09:04,550 --> 00:09:01,620

point-centered processes are the driving

264

00:09:06,290 --> 00:09:04,560

force behind all phenomena including the

265

00:09:08,050 --> 00:09:06,300

expansion of the universe and that this

266

00:09:10,550 --> 00:09:08,060

mechanism is a self-organizing

267

00:09:12,650 --> 00:09:10,560

non-material Consciousness according to

268

00:09:14,870 --> 00:09:12,660

the soft model this Consciousness

269

00:09:16,550 --> 00:09:14,880

generates dimensional byproducts and

270

00:09:19,850 --> 00:09:16,560

measurements that give rise to physical

271

00:09:20,930 --> 00:09:19,860

emotional mental Soulful and spiritual

272

00:09:23,750 --> 00:09:20,940

realities

273

00:09:26,329 --> 00:09:23,760

the matter of space by Brian scipione

274

00:09:28,370 --> 00:09:26,339

complex fields of invariant gauge Theory

275

00:09:29,810 --> 00:09:28,380

and general relativity have long been a

276

00:09:31,250 --> 00:09:29,820

challenge for physicists with the

277

00:09:32,690 --> 00:09:31,260

current crisis in physics and our

278

00:09:34,370 --> 00:09:32,700

limited understanding of the vast

279

00:09:36,170 --> 00:09:34,380

majority of the matter and composition

280

00:09:37,910 --> 00:09:36,180

in the universe the integration of these

281

00:09:40,670 --> 00:09:37,920

theories with the standard model remains

282

00:09:42,470 --> 00:09:40,680

a formidable task however Brian offers A

283

00:09:44,329 --> 00:09:42,480

New Perspective on the conundrum by

284

00:09:46,070 --> 00:09:44,339

delving into the basis for a potential

285

00:09:48,650 --> 00:09:46,080

Theory which integrates general

286

00:09:50,509 --> 00:09:48,660

relativity and quantum theory the author

287

00:09:53,150 --> 00:09:50,519

discusses topics such as event

288

00:09:56,030 --> 00:09:53,160

displacements black holes the nature of

289

00:09:58,850 --> 00:09:56,040

gravity and the origins of time

290

00:10:01,250 --> 00:09:58,860

easy solution to Consciousness by

291

00:10:03,410 --> 00:10:01,260

innocence this video highlights the

292

00:10:05,690 --> 00:10:03,420

Journey of Mark Psalms and Carl friston

293

00:10:07,009 --> 00:10:05,700

who are prominent neuroscientists as

294

00:10:09,410 --> 00:10:07,019

they delve into the realm of

295

00:10:11,570 --> 00:10:09,420

thermodynamics information Theory and

296

00:10:13,250 --> 00:10:11,580

computation their aim was to tackle the

297

00:10:15,110 --> 00:10:13,260

persistent and challenging question of

298

00:10:17,449 --> 00:10:15,120

Consciousness the video posits that

299

00:10:19,910 --> 00:10:17,459

conscious experiences arise as feelings

300

00:10:21,769 --> 00:10:19,920

serving as a means of guiding the body

301
00:10:23,750 --> 00:10:21,779
to make informed decisions based on the

302
00:10:25,970 --> 00:10:23,760
most favorable conditions the central

303
00:10:27,650 --> 00:10:25,980
theme of the video is the hard problem

304
00:10:29,690 --> 00:10:27,660
of Consciousness and how it can be

305
00:10:31,790 --> 00:10:29,700
understood through the lens of the free

306
00:10:33,949 --> 00:10:31,800
energy principle a concept that all

307
00:10:37,009 --> 00:10:33,959
living systems abide by

308
00:10:40,430 --> 00:10:37,019
Loop quantum gravity and field Theory by

309
00:10:42,290 --> 00:10:40,440
Dr natarajan doctor in a renowned expert

310
00:10:44,269 --> 00:10:42,300
in the field of group field Theory and

311
00:10:46,069 --> 00:10:44,279
loop quantum gravity has graciously

312
00:10:48,170 --> 00:10:46,079
taken it upon himself to provide a

313
00:10:49,430 --> 00:10:48,180

Serene and sophisticated overview of the

314

00:10:51,470 --> 00:10:49,440

work that has been done in this area

315

00:10:53,690 --> 00:10:51,480

with breathtaking visual aids he

316

00:10:56,329 --> 00:10:53,700

artfully weaves in narrative that exudes

317

00:10:58,310 --> 00:10:56,339

tranquility and elegantly presents the

318

00:11:00,050 --> 00:10:58,320

complex Topics in a manner that is

319

00:11:02,930 --> 00:11:00,060

easily digestible

320

00:11:05,449 --> 00:11:02,940

the infinity by James Soros in the video

321

00:11:07,250 --> 00:11:05,459

the infinity unlimited James delves into

322

00:11:09,470 --> 00:11:07,260

the question of whether existence and

323

00:11:11,329 --> 00:11:09,480

non-existence coexist the author

324

00:11:13,130 --> 00:11:11,339

meticulously explores four different

325

00:11:15,170 --> 00:11:13,140

solutions in search of a compatibility

326

00:11:17,269 --> 00:11:15,180

between these two seemingly opposing

327

00:11:18,829 --> 00:11:17,279

Concepts the author reaches a remarkable

328

00:11:20,930 --> 00:11:18,839

conclusion that the most fundamental

329

00:11:23,030 --> 00:11:20,940

aspect of reality is actually the

330

00:11:24,590 --> 00:11:23,040

concept of infinity itself this idea

331

00:11:26,569 --> 00:11:24,600

suggests that the universe may be

332

00:11:28,910 --> 00:11:26,579

inherently boundless both in terms of

333

00:11:31,190 --> 00:11:28,920

existence and non-existence

334

00:11:33,710 --> 00:11:31,200

intro to the quantum harmonic oscillator

335

00:11:35,690 --> 00:11:33,720

by Richard Bale this video which is both

336

00:11:37,430 --> 00:11:35,700

aesthetically pleasing and elegantly

337

00:11:38,870 --> 00:11:37,440

presented provides a comprehensive

338

00:11:40,610 --> 00:11:38,880

analysis of the evolution of the

339

00:11:42,769 --> 00:11:40,620

harmonic oscillator it elegantly

340

00:11:45,230 --> 00:11:42,779

illustrates how ideal binding forces

341

00:11:47,150 --> 00:11:45,240

ranging from molecules and atoms to

342

00:11:49,130 --> 00:11:47,160

entire systems are influenced by the

343

00:11:51,230 --> 00:11:49,140

quantum harmonic oscillator the video

344

00:11:52,550 --> 00:11:51,240

effectively uses this concept as a model

345

00:11:54,949 --> 00:11:52,560

to demonstrate its practical

346

00:11:57,050 --> 00:11:54,959

applications in the field of chemistry

347

00:11:59,329 --> 00:11:57,060

and molecular Dynamics the analytic

348

00:12:01,250 --> 00:11:59,339

solution is also given due consideration

349

00:12:02,509 --> 00:12:01,260

and its significance in the overall

350

00:12:04,370 --> 00:12:02,519

understanding of the harmonic

351

00:12:06,170 --> 00:12:04,380

oscillators emphasized with its

352

00:12:08,150 --> 00:12:06,180

captivating visuals and compelling

353

00:12:10,250 --> 00:12:08,160

narration this video provides an

354

00:12:11,990 --> 00:12:10,260

insightful and accessible explanation of

355

00:12:13,370 --> 00:12:12,000

a complex subject that will be of great

356

00:12:16,009 --> 00:12:13,380

interest to students of physics

357

00:12:19,190 --> 00:12:16,019

chemistry and molecular Dynamics

358

00:12:21,829 --> 00:12:19,200

lagrangian mechanics by physics fluency

359

00:12:23,569 --> 00:12:21,839

many videos in the fields of mathematics

360

00:12:25,250 --> 00:12:23,579

and science are notable for their

361

00:12:26,930 --> 00:12:25,260

expertise in creating graphic

362

00:12:28,790 --> 00:12:26,940

representations that are seamlessly

363

00:12:30,829 --> 00:12:28,800

integrated into a cohesive narrative

364

00:12:32,630 --> 00:12:30,839

this particular video stands out in its

365

00:12:34,610 --> 00:12:32,640

ability to demonstrate the power of

366

00:12:36,290 --> 00:12:34,620

visual aids and the explanation of

367

00:12:37,910 --> 00:12:36,300

complex Concepts through its

368

00:12:39,889 --> 00:12:37,920

presentation we are privileged to

369

00:12:41,930 --> 00:12:39,899

witness the analytical solutions to a

370

00:12:43,730 --> 00:12:41,940

system of differential equations that

371

00:12:46,129 --> 00:12:43,740

have been derived through the process of

372

00:12:47,750 --> 00:12:46,139

linearization the elegant solution is

373

00:12:49,670 --> 00:12:47,760

then brought to life through the use of

374

00:12:51,829 --> 00:12:49,680

vivid Graphics which illustrate the

375

00:12:54,350 --> 00:12:51,839

implications of the solution and Its

376

00:12:56,269 --> 00:12:54,360

Real World application this video also

377

00:12:58,490 --> 00:12:56,279

delves into the intricacies of eigen

378

00:13:00,410 --> 00:12:58,500

frequencies and vectors offering a

379

00:13:02,389 --> 00:13:00,420

comprehensive examination of these key

380

00:13:04,670 --> 00:13:02,399

Concepts the result is a breathtaking

381

00:13:06,590 --> 00:13:04,680

solution for the pendulum problem and

382

00:13:08,509 --> 00:13:06,600

serves as a beautiful example of a

383

00:13:11,230 --> 00:13:08,519

thorough explanation brought to life

384

00:13:14,269 --> 00:13:11,240

through visuals

385

00:13:16,129 --> 00:13:14,279

sgtoe by Sonic gravity among the videos

386

00:13:17,750 --> 00:13:16,139

exploring mathematics physics and

387

00:13:19,310 --> 00:13:17,760

spirituality some take a more

388

00:13:20,990 --> 00:13:19,320

unconventional approach offering

389

00:13:22,730 --> 00:13:21,000

perspectives that are both unique and

390

00:13:24,769 --> 00:13:22,740

profound one such video is Sonic

391

00:13:26,750 --> 00:13:24,779

gravities the holographic principle of

392

00:13:28,370 --> 00:13:26,760

the universe which delves into the wide

393

00:13:29,930 --> 00:13:28,380

range of subjects that are often

394

00:13:31,190 --> 00:13:29,940

considered disparate but are brought

395

00:13:33,170 --> 00:13:31,200

together in a way that is both

396

00:13:34,730 --> 00:13:33,180

insightful and captivating over the

397

00:13:35,990 --> 00:13:34,740

course of the video the viewer has taken

398

00:13:37,790 --> 00:13:36,000

on a journey that begins with the

399

00:13:39,110 --> 00:13:37,800

spontaneous birth of particles and leads

400

00:13:40,790 --> 00:13:39,120

to a complete understanding of the

401
00:13:42,470 --> 00:13:40,800
holographic nature of the universe along

402
00:13:44,750 --> 00:13:42,480
the way the viewer is introduced to a

403
00:13:47,569 --> 00:13:44,760
variety of Concepts including black hole

404
00:13:49,610 --> 00:13:47,579
Genesis time time dilation Consciousness

405
00:13:51,530 --> 00:13:49,620
the identity of dark matter the god

406
00:13:53,750 --> 00:13:51,540
equation that being the Einstein

407
00:13:55,850 --> 00:13:53,760
Voorhees energy of mass equation dark

408
00:13:57,590 --> 00:13:55,860
energy and even teleportation each of

409
00:13:59,449 --> 00:13:57,600
these topics is treated as a necessary

410
00:14:01,430 --> 00:13:59,459
node in a larger narrative which is

411
00:14:03,530 --> 00:14:01,440
woven together to create a unified whole

412
00:14:05,810 --> 00:14:03,540
to fully grasp the ideas presented in

413
00:14:07,850 --> 00:14:05,820

the video one may require several weeks

414

00:14:09,949 --> 00:14:07,860

if not months nevertheless the journey

415

00:14:12,050 --> 00:14:09,959

is well worth the effort for it offers a

416

00:14:14,629 --> 00:14:12,060

unique and insightful perspective on the

417

00:14:17,210 --> 00:14:14,639

universe and our place within it

418

00:14:19,490 --> 00:14:17,220

what is E8 good for by quantum gravity

419

00:14:21,290 --> 00:14:19,500

research E8 is a group in mathematics

420

00:14:23,810 --> 00:14:21,300

and physics known as the exceptional Lee

421

00:14:25,670 --> 00:14:23,820

group of Dimension 248 it is one of the

422

00:14:27,829 --> 00:14:25,680

largest and most exceptional of the lead

423

00:14:29,569 --> 00:14:27,839

groups and has played a significant role

424

00:14:31,550 --> 00:14:29,579

in the development of several branches

425

00:14:33,710 --> 00:14:31,560

of physics and Mathematics including

426
00:14:36,290 --> 00:14:33,720
String Theory Quantum field Theory and

427
00:14:38,150 --> 00:14:36,300
algebraic geometry in physics E8 is

428
00:14:39,710 --> 00:14:38,160
often associated with the symmetries of

429
00:14:41,569 --> 00:14:39,720
the unified theory of the fundamental

430
00:14:43,250 --> 00:14:41,579
forces and has been proposed as a

431
00:14:44,990 --> 00:14:43,260
candidate for describing the structure

432
00:14:46,910 --> 00:14:45,000
of the universe at its most fundamental

433
00:14:48,470 --> 00:14:46,920
level quantum gravity research is a

434
00:14:50,269 --> 00:14:48,480
fascinating field that delves into the

435
00:14:51,829 --> 00:14:50,279
intricacies of Lee algebra's root

436
00:14:53,750 --> 00:14:51,839
systems and their applications to the

437
00:14:55,550 --> 00:14:53,760
symmetries of space-time the researchers

438
00:14:57,769 --> 00:14:55,560

in this field have done a remarkable job

439

00:14:59,569 --> 00:14:57,779

of presenting complex topics and in this

440

00:15:01,790 --> 00:14:59,579

video is suggested in a manner that is

441

00:15:04,250 --> 00:15:01,800

both digestible and engaging the

442

00:15:06,230 --> 00:15:04,260

author's work have implications for

443

00:15:09,050 --> 00:15:06,240

understanding of the standard model and

444

00:15:13,129 --> 00:15:09,060

Grand unified theories and now for the

445

00:15:14,569 --> 00:15:13,139

winners number one triadic idealism the

446

00:15:16,430 --> 00:15:14,579

current prevailing view in answering the

447

00:15:18,710 --> 00:15:16,440

composition of the universe is

448

00:15:20,449 --> 00:15:18,720

physicalism however some say it falls

449

00:15:22,069 --> 00:15:20,459

short in explaining Consciousness to

450

00:15:23,569 --> 00:15:22,079

address this limitation the speaker

451

00:15:26,030 --> 00:15:23,579

delves into the philosophy of

452

00:15:27,769 --> 00:15:26,040

metaphysical idealism with the focus on

453

00:15:29,810 --> 00:15:27,779

countering the decoherence problem in

454

00:15:31,310 --> 00:15:29,820

idealism he argues that the reality of

455

00:15:33,470 --> 00:15:31,320

the universe lies solely within the

456

00:15:35,269 --> 00:15:33,480

realm of Minds the speaker guides us

457

00:15:37,370 --> 00:15:35,279

through the criticism of idealism by

458

00:15:39,889 --> 00:15:37,380

philosophers Moore and Russell and

459

00:15:41,930 --> 00:15:39,899

explains why absolute idealism in the

460

00:15:44,030 --> 00:15:41,940

form of pan psychic idealism is a

461

00:15:45,769 --> 00:15:44,040

credible idea he highlights how this

462

00:15:47,629 --> 00:15:45,779

perspective provides a unique and

463

00:15:50,210 --> 00:15:47,639

compelling explanation for the nature of

464

00:15:52,250 --> 00:15:50,220

Consciousness and the universe number

465

00:15:54,470 --> 00:15:52,260

two time independent Solutions in

466

00:15:56,750 --> 00:15:54,480

electrodynamics in this enlightening

467

00:15:58,310 --> 00:15:56,760

Journey Sorenson expertly guides us

468

00:16:00,530 --> 00:15:58,320

through the complexities of the time

469

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

independent Solutions in electrodynamics

470

00:16:04,069 --> 00:16:02,399

with his vast knowledge and Mastery of

471

00:16:05,810 --> 00:16:04,079

the subject he confidently navigates

472

00:16:07,550 --> 00:16:05,820

their challenging equations in the field

473

00:16:09,350 --> 00:16:07,560

and Source Expressions through his

474

00:16:11,090 --> 00:16:09,360

guidance we gain a deeper understanding

475

00:16:13,310 --> 00:16:11,100

of the intricacies of this field of

476

00:16:15,170 --> 00:16:13,320

study at the end of this journey nud

477

00:16:17,150 --> 00:16:15,180

Sorensen takes his time to discuss the

478

00:16:19,430 --> 00:16:17,160

potential for growth and Improvement in

479

00:16:21,290 --> 00:16:19,440

electrodynamics he sheds light on

480

00:16:23,449 --> 00:16:21,300

opportunities that may lie ahead and

481

00:16:25,910 --> 00:16:23,459

provides valuable insights into how the

482

00:16:27,829 --> 00:16:25,920

field can be Advanced and optimized this

483

00:16:29,269 --> 00:16:27,839

video offers a rare glimpse into the

484

00:16:31,129 --> 00:16:29,279

mind of a knowledgeable expert in

485

00:16:32,870 --> 00:16:31,139

electrodynamics and provides a

486

00:16:35,569 --> 00:16:32,880

thought-provoking exploration of the

487

00:16:38,389 --> 00:16:35,579

subject number three the space-time

488

00:16:41,030 --> 00:16:38,399

metric in this wonderfully engaging

489

00:16:43,189 --> 00:16:41,040

video dialect begins with a deceptively

490

00:16:45,050 --> 00:16:43,199

simple inquiry how do we describe

491

00:16:46,610 --> 00:16:45,060

distance while answer appears

492

00:16:48,650 --> 00:16:46,620

straightforward the concept becomes

493

00:16:50,990 --> 00:16:48,660

complex and more and more complex when

494

00:16:52,910 --> 00:16:51,000

considered in relation to the coordinate

495

00:16:54,769 --> 00:16:52,920

grid through a captivating Journey were

496

00:16:56,930 --> 00:16:54,779

introduced to the fascinating world of

497

00:16:58,610 --> 00:16:56,940

space-time cartography the speaker

498

00:17:00,530 --> 00:16:58,620

presents a comprehensive geometric

499

00:17:02,389 --> 00:17:00,540

interpretation of the space-time metric

500

00:17:04,189 --> 00:17:02,399

which provides a deeper understanding of

501
00:17:06,169 --> 00:17:04,199
the relationship between distance and

502
00:17:07,850 --> 00:17:06,179
coordinate grids this video offers a

503
00:17:09,650 --> 00:17:07,860
unique perspective on subjects and

504
00:17:12,650 --> 00:17:09,660
provides a thought-provoking exploration

505
00:17:16,189 --> 00:17:12,660
of the complexities of space-time number

506
00:17:18,289 --> 00:17:16,199
four can math explain Consciousness The

507
00:17:19,970 --> 00:17:18,299
elusive nature of Consciousness and its

508
00:17:21,949 --> 00:17:19,980
underlying mechanisms have been a source

509
00:17:23,750 --> 00:17:21,959
of mystery and Fascination for centuries

510
00:17:25,789 --> 00:17:23,760
despite the observable behaviors of

511
00:17:27,409 --> 00:17:25,799
conscious beings it remains unclear

512
00:17:29,390 --> 00:17:27,419
whether these actions are indicative of

513
00:17:30,950 --> 00:17:29,400

true Consciousness this raises a

514

00:17:32,930 --> 00:17:30,960

multitude of ethical considerations

515

00:17:34,789 --> 00:17:32,940

especially with machine learning and AI

516

00:17:35,930 --> 00:17:34,799

of the various theories attempting to

517

00:17:37,430 --> 00:17:35,940

shed light on the nature of

518

00:17:39,169 --> 00:17:37,440

Consciousness there are only a handful

519

00:17:41,150 --> 00:17:39,179

that utilize mathematical explanations

520

00:17:42,590 --> 00:17:41,160

the idea that we can use patterns of

521

00:17:44,390 --> 00:17:42,600

brain activity to understand the

522

00:17:46,970 --> 00:17:44,400

workings of the mind is a tantalizing

523

00:17:48,409 --> 00:17:46,980

one the astonishing hypothesis outlined

524

00:17:50,090 --> 00:17:48,419

in integrated information Theory

525

00:17:52,130 --> 00:17:50,100

provides us with a glimpse into the vast

526

00:17:53,870 --> 00:17:52,140

potential of this field while it may not

527

00:17:55,669 --> 00:17:53,880

offer a definitive answer it presents

528

00:17:57,710 --> 00:17:55,679

rich and thought-provoking insight into

529

00:17:59,330 --> 00:17:57,720

the direction of This research and the

530

00:18:01,789 --> 00:17:59,340

steps that need to be taken in order to

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00:18:04,430 --> 00:18:01,799

unlock the secrets of consciousness

532

00:18:07,130 --> 00:18:04,440

last but not least epnol in the

533

00:18:09,470 --> 00:18:07,140

beginning this beautiful and captivating

534

00:18:11,810 --> 00:18:09,480

presentation delves into the intricacies

535

00:18:14,029 --> 00:18:11,820

of The Surreal numbers highlighting null

536

00:18:15,470 --> 00:18:14,039

as a focal point it brings to light the

537

00:18:16,549 --> 00:18:15,480

numerous underlying assumptions that

538

00:18:18,770 --> 00:18:16,559

have been made in the realm of

539

00:18:20,750 --> 00:18:18,780

mathematical Infinity with the narrator

540

00:18:22,669 --> 00:18:20,760

holding a PhD in physics and a passion

541

00:18:24,590 --> 00:18:22,679

for octonians and quaternions the

542

00:18:27,049 --> 00:18:24,600

audience can only hope that the surreal

543

00:18:28,909 --> 00:18:27,059

physics Channel continues to evolve not

544

00:18:30,409 --> 00:18:28,919

only in its visual aesthetic but in its

545

00:18:32,570 --> 00:18:30,419

ability to effortlessly communicate

546

00:18:34,909 --> 00:18:32,580

complex technical concepts with Clarity

547

00:18:36,770 --> 00:18:34,919

and elegance actually that wasn't last

548

00:18:39,049 --> 00:18:36,780

and the following two are honorable

549

00:18:41,150 --> 00:18:39,059

mentions Brilliance has come on board to

550

00:18:42,770 --> 00:18:41,160

give 500 to both of these entrants and

551
00:18:44,630 --> 00:18:42,780
they don't know this until now this is a

552
00:18:47,090 --> 00:18:44,640
surprise special mention to professor

553
00:18:48,529 --> 00:18:47,100
unzeker and to Tyler Goldstein what are

554
00:18:50,510 --> 00:18:48,539
we talking about when we speak of a

555
00:18:52,430 --> 00:18:50,520
theory of everything would we recognize

556
00:18:54,049 --> 00:18:52,440
it if we were to discover it it's not

557
00:18:56,450 --> 00:18:54,059
about a correct calculation or

558
00:18:58,490 --> 00:18:56,460
observation but finding where to start

559
00:19:00,409 --> 00:18:58,500
unsaker takes us through a series of

560
00:19:02,630 --> 00:19:00,419
statements principally that physics has

561
00:19:04,610 --> 00:19:02,640
indeed achieved plenty and this is

562
00:19:06,950 --> 00:19:04,620
evidence that it's important unzeker

563
00:19:08,630 --> 00:19:06,960

considers the position that g has no

564

00:19:10,250 --> 00:19:08,640

meaning and it can be set to the plank

565

00:19:12,110 --> 00:19:10,260

length numerical values have an

566

00:19:13,909 --> 00:19:12,120

intrinsic purpose in nature and

567

00:19:15,650 --> 00:19:13,919

therefore important to the progress of a

568

00:19:17,570 --> 00:19:15,660

theory of everything he covers direct

569

00:19:20,330 --> 00:19:17,580

the constants of the universe and

570

00:19:21,830 --> 00:19:20,340

complex matrices Tyler Goldstein on the

571

00:19:24,049 --> 00:19:21,840

other hand is developing a sentient

572

00:19:26,210 --> 00:19:24,059

Singularity Theory and how a variety of

573

00:19:28,789 --> 00:19:26,220

meaningful perspectives can be taken to

574

00:19:31,430 --> 00:19:28,799

approach a unified theory fundamental to

575

00:19:33,230 --> 00:19:31,440

his Insight is that someone exists at

576

00:19:35,330 --> 00:19:33,240

least that you exist and others

577

00:19:38,029 --> 00:19:35,340

therefore the inclusion of subjective

578

00:19:39,529 --> 00:19:38,039

metaphysics is necessary to integrate in

579

00:19:41,690 --> 00:19:39,539

hopes to rank order theories by their

580

00:19:43,430 --> 00:19:41,700

fundamentality Tyler considers morality

581

00:19:45,650 --> 00:19:43,440

and responsibility the lack of

582

00:19:48,110 --> 00:19:45,660

cooperation in science and how this may

583

00:19:49,730 --> 00:19:48,120

all work out in the end in conclusion

584

00:19:51,590 --> 00:19:49,740

I'd like to reiterate my immense

585

00:19:53,150 --> 00:19:51,600

gratitude for all those who took part in

586

00:19:55,310 --> 00:19:53,160

this challenge this was thrilling

587

00:19:58,370 --> 00:19:55,320

challenging obviously overwhelming at

588

00:20:00,529 --> 00:19:58,380

times and above all a fantastic way to

589

00:20:02,510 --> 00:20:00,539

connect with you as the audience of toe

590

00:20:04,190 --> 00:20:02,520

also to cultivate a community which is

591

00:20:06,169 --> 00:20:04,200

one of the major aspects that delineates

592

00:20:08,690 --> 00:20:06,179

theories of everything the project from

593

00:20:10,549 --> 00:20:08,700

Mere podcast channels and to Showcase

594

00:20:12,830 --> 00:20:10,559

your fellow commenters Watchers

595

00:20:14,029 --> 00:20:12,840

listeners to you thank you thank you

596

00:20:15,830 --> 00:20:14,039

brilliant because it wouldn't be

597

00:20:17,390 --> 00:20:15,840

possible without them in fact they said

598

00:20:19,130 --> 00:20:17,400

you don't even need to put a sponsor

599

00:20:21,409 --> 00:20:19,140

message we're just donating this money

600

00:20:22,850 --> 00:20:21,419

so thank you brilliant thank you to you

601
00:20:25,070 --> 00:20:22,860
for watching for listening for making

602
00:20:26,450 --> 00:20:25,080
tow what it is for helping not only toe

603
00:20:28,669 --> 00:20:26,460
get to the point where it could be but

604
00:20:30,049 --> 00:20:28,679
helping other creators in proxy via this

605
00:20:32,270 --> 00:20:30,059
contest via this challenge this

606
00:20:34,070 --> 00:20:32,280
encouragement and a final note this is

607
00:20:36,470 --> 00:20:34,080
just the beginning there are several

608
00:20:39,650 --> 00:20:36,480
several several plans for the future

609
00:20:41,270 --> 00:20:39,660
take care the podcast is now concluded

610
00:20:42,890 --> 00:20:41,280
thank you for watching if you haven't

611
00:20:44,630 --> 00:20:42,900
subscribed or clicked on that like

612
00:20:47,870 --> 00:20:44,640
button now would be a great time to do

613
00:20:49,669 --> 00:20:47,880

so as each subscribe and like helps

614

00:20:52,070 --> 00:20:49,679

YouTube push this content to more people

615

00:20:54,230 --> 00:20:52,080

also I recently found out that external

616

00:20:56,390 --> 00:20:54,240

links count plenty toward the algorithm

617

00:20:58,549 --> 00:20:56,400

which means that when you share on

618

00:21:00,710 --> 00:20:58,559

Twitter on Facebook on Reddit

619

00:21:02,450 --> 00:21:00,720

Etc it shows YouTube that people are

620

00:21:04,669 --> 00:21:02,460

talking about this outside side of

621

00:21:06,529 --> 00:21:04,679

YouTube which in turn greatly AIDS the

622

00:21:08,150 --> 00:21:06,539

Distribution on YouTube as well if you'd

623

00:21:10,450 --> 00:21:08,160

like to support more conversations like

624

00:21:12,529 --> 00:21:10,460

this then do consider visiting

625

00:21:14,750 --> 00:21:12,539

theoriesofeverything.org again it's

626

00:21:17,090 --> 00:21:14,760

support from the sponsors and you that

627

00:21:18,830 --> 00:21:17,100

allow me to work on Tow full time you

628

00:21:20,930 --> 00:21:18,840

get early access to ad-free audio

629

00:21:23,029 --> 00:21:20,940

episodes there as well every dollar

630

00:21:25,070 --> 00:21:23,039

helps far more than you may think either

631

00:21:31,310 --> 00:21:25,080

way your viewership is generosity enough