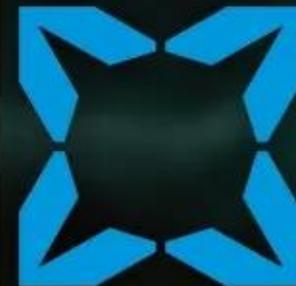


STRUCTURE AND PROPERTIES OF THE QUANTUM INFORMATION FIELD

JAMES L. OSCHMAN



**SOCIETY
FOR
SCIENTIFIC
EXPLORATION**

1
00:00:12,500 --> 00:00:09,560
okay here we go this presentation is

2
00:00:20,210 --> 00:00:12,510
dedicated to the most powerful force in

3
00:00:22,420 --> 00:00:20,220
the universe the women what I'm going to

4
00:00:25,250 --> 00:00:22,430
tell you is that a variety of sources

5
00:00:28,430 --> 00:00:25,260
give details about the structure and

6
00:00:31,040 --> 00:00:28,440
properties of an all-pervasive means it

7
00:00:33,619 --> 00:00:31,050
goes everywhere inside of us right out

8
00:00:35,810 --> 00:00:33,629
to the distant galaxies quantum

9
00:00:38,450 --> 00:00:35,820
information field that stores data of

10
00:00:41,300 --> 00:00:38,460
all kinds and that can energize a

11
00:00:44,420 --> 00:00:41,310
variety of anomalous phenomenon the

12
00:00:47,479 --> 00:00:44,430
kinds of things you folks talk about and

13
00:00:50,120 --> 00:00:47,489

this information field is based on

14

00:00:53,810 --> 00:00:50,130

holography it's fractal it's ten singers

15

00:00:56,780 --> 00:00:53,820

it uses the mathematics of Phi or sacred

16

00:01:01,280 --> 00:00:56,790

geometry and each of these components is

17

00:01:03,560 --> 00:01:01,290

worth a day-long workshop at least so I

18

00:01:05,899 --> 00:01:03,570

can't go into great detail about each of

19

00:01:09,499 --> 00:01:05,909

them I just want to give you a kind of

20

00:01:11,750 --> 00:01:09,509

an overview there's a great video on

21

00:01:18,560 --> 00:01:11,760

YouTube called hacking reality a

22

00:01:20,719 --> 00:01:18,570

laypersons guide to e8 is there an 8

23

00:01:24,830 --> 00:01:20,729

dimensional engine behind our universe

24

00:01:27,680 --> 00:01:24,840

and this beautiful actress takes us on a

25

00:01:30,380 --> 00:01:27,690

fun visually exciting journey as she

26
00:01:33,620 --> 00:01:30,390
explores a mysterious highly complex

27
00:01:36,830 --> 00:01:33,630
structure known simply as a 8 a weird 8

28
00:01:39,469 --> 00:01:36,840
dimensional mathematical object that for

29
00:01:42,469 --> 00:01:39,479
some strange reason appears to encode

30
00:01:45,170 --> 00:01:42,479
all of the particles and forces in our

31
00:01:47,750 --> 00:01:45,180
three-dimensional universe and those of

32
00:01:50,960 --> 00:01:47,760
you who are familiar with EA to probably

33
00:01:54,620 --> 00:01:50,970
know that things have advanced since 8

34
00:01:55,820 --> 00:01:54,630
so but this is the best I can do right

35
00:02:00,740 --> 00:01:55,830
now

36
00:02:05,510 --> 00:02:00,750
when I saw this image of e8 I said out

37
00:02:07,550 --> 00:02:05,520
loud gasp I was quite impressed with it

38
00:02:10,369 --> 00:02:07,560

and you'll see why and I'll come back to

39

00:02:14,240 --> 00:02:10,379

this later on so here's the movie star

40

00:02:16,710 --> 00:02:14,250

great for a quantum physics group to

41

00:02:20,690 --> 00:02:16,720

have a movie star to narrate their film

42

00:02:22,950 --> 00:02:20,700

fantastic what a deal

43

00:02:24,750 --> 00:02:22,960

imagine opening your eyes and finding

44

00:02:28,110 --> 00:02:24,760

yourself surrounded by water and you

45

00:02:31,310 --> 00:02:28,120

cannot remember ever not being in that

46

00:02:34,410 --> 00:02:31,320

water this is the way the film begins

47

00:02:39,660 --> 00:02:34,420

recognize that this is not about water

48

00:02:42,210 --> 00:02:39,670

this is about space so imagine opening

49

00:02:46,320 --> 00:02:42,220

your eyes and was we could do right now

50

00:02:49,380 --> 00:02:46,330

and realize we are immersed in space and

51
00:02:53,070 --> 00:02:49,390
we always have been and we can't

52
00:02:55,380 --> 00:02:53,080
remember not being in space the first

53
00:02:59,330 --> 00:02:55,390
question you might ask is how did I get

54
00:03:03,840 --> 00:02:59,340
here she says you've always been there

55
00:03:07,080 --> 00:03:03,850
hmm what do you mean always window I

56
00:03:12,110 --> 00:03:07,090
enter the pool you never entered the

57
00:03:15,000 --> 00:03:12,120
pool you have always been in the pool

58
00:03:17,300 --> 00:03:15,010
okay but where was i before I was in the

59
00:03:19,980 --> 00:03:17,310
pool that's the first question

60
00:03:22,949 --> 00:03:19,990
there is no before in which you were not

61
00:03:25,770 --> 00:03:22,959
in the pool there is no before in which

62
00:03:31,130 --> 00:03:25,780
we were not in the quantum information

63
00:03:34,940 --> 00:03:31,140

field you have always been in the pool

64

00:03:42,540 --> 00:03:34,950

always and she turns to the camera and

65

00:03:45,120 --> 00:03:42,550

grows always to make an emphasis so

66

00:03:48,570 --> 00:03:45,130

this is about this next part is about my

67

00:03:51,479 --> 00:03:48,580

life the rise and fall of a materialist

68

00:03:55,140 --> 00:03:51,489

scientist parts of this are emotional

69

00:04:00,270 --> 00:03:55,150

and very personal I might cry but that's

70

00:04:02,130 --> 00:04:00,280

okay don't worry about that here's how I

71

00:04:04,830 --> 00:04:02,140

got here

72

00:04:06,350 --> 00:04:04,840

degrees in biophysics and biology from

73

00:04:08,970 --> 00:04:06,360

the University of Pittsburgh

74

00:04:10,140 --> 00:04:08,980

postdoctoral work Cambridge University

75

00:04:13,020 --> 00:04:10,150

in England Case Western Reserve

76

00:04:15,660 --> 00:04:13,030

University in Cleveland University of

77

00:04:20,130 --> 00:04:15,670

Copenhagen Northwestern University where

78

00:04:21,990 --> 00:04:20,140

I was a professor and staff scientist at

79

00:04:24,270 --> 00:04:22,000

the Marine Biological Laboratory in

80

00:04:27,659 --> 00:04:24,280

Woods Hole published a bunch of papers

81

00:04:28,170 --> 00:04:27,669

in highly respected peer-reviewed

82

00:04:37,730 --> 00:04:28,180

journal

83

00:04:41,370 --> 00:04:37,740

was a well credentialed a materialist

84

00:04:46,230 --> 00:04:41,380

scientist i couldäô credential lots of

85

00:04:48,510 --> 00:04:46,240

folks then the next part is about what

86

00:04:52,800 --> 00:04:48,520

happened and this special blessing in my

87

00:04:54,930 --> 00:04:52,810

life has been betty wall dr betty wall

88

00:04:57,689 --> 00:04:54,940

who lives in Boulder in Woods Hole

89

00:05:01,260 --> 00:04:57,699

Massachusetts she does Rolfing in gin

90

00:05:03,810 --> 00:05:01,270

shinjitsu she has written a nice book

91

00:05:06,860 --> 00:05:03,820

that people really like because it

92

00:05:10,339 --> 00:05:06,870

enables you to heal yourself using

93

00:05:12,629 --> 00:05:10,349

energy medicine gin shinjitsu good stuff

94

00:05:15,990 --> 00:05:12,639

Betty and I did a lot of things together

95

00:05:20,640 --> 00:05:16,000

I just looked looked it up we published

96

00:05:23,339 --> 00:05:20,650

15 papers together or with other people

97

00:05:26,730 --> 00:05:23,349

Betty saw something in a magazine about

98

00:05:32,430 --> 00:05:26,740

the possibility of going to Darjeeling

99

00:05:36,089 --> 00:05:32,440

and studying with a very the very

100

00:05:40,290 --> 00:05:36,099

venerable collar and posh a buddhist

101
00:05:42,270 --> 00:05:40,300
lama in darjeeling into so intuitively

102
00:05:45,589 --> 00:05:42,280
she got that that was a good thing to do

103
00:05:47,939 --> 00:05:45,599
when she did it she went there and

104
00:05:54,300 --> 00:05:47,949
darjeeling they grow tea and they grow

105
00:05:57,390 --> 00:05:54,310
monks the good the Ricochet was not

106
00:05:59,100 --> 00:05:57,400
feeling well and Betty had recently

107
00:06:01,770 --> 00:05:59,110
graduated from the Boulder School of

108
00:06:04,920 --> 00:06:01,780
Massage Therapy she offered to give him

109
00:06:07,740 --> 00:06:04,930
a foot massage and he said yes and it

110
00:06:13,140 --> 00:06:07,750
made him feel better so he decided to

111
00:06:17,520 --> 00:06:13,150
initiate her into the healing tradition

112
00:06:19,589 --> 00:06:17,530
of Buddhism the purple blue Buddha the

113
00:06:23,240 --> 00:06:19,599

medicine Buddha described as having

114

00:06:26,149 --> 00:06:23,250

entered into a state of Samadhi called

115

00:06:30,330 --> 00:06:26,159

eliminating all the suffering and

116

00:06:32,879 --> 00:06:30,340

afflictions of sentient beings I don't

117

00:06:33,820 --> 00:06:32,889

know a lot about Buddhism most of what I

118

00:06:37,600 --> 00:06:33,830

know came from

119

00:06:39,880 --> 00:06:37,610

ken wilber somebody asked him what can

120

00:06:44,830 --> 00:06:39,890

you do that the Buddha couldn't do and

121

00:06:47,590 --> 00:06:44,840

he said I can drive my Jeep so it

122

00:06:49,600 --> 00:06:47,600

meanwhile here's what happened it took a

123

00:06:52,000 --> 00:06:49,610

while for Betty and I to put the timing

124

00:06:54,640 --> 00:06:52,010

together but this is what happened the

125

00:06:57,250 --> 00:06:54,650

Ricochet did a ceremony for her to

126
00:07:00,270 --> 00:06:57,260
initiate her and he gave her some

127
00:07:05,710 --> 00:07:00,280
mantras and they were translated into

128
00:07:08,950 --> 00:07:05,720
from tibetan into english and he held

129
00:07:16,030 --> 00:07:08,960
his hands over her head and she felt

130
00:07:18,750 --> 00:07:16,040
incredible bliss unbelievable her only

131
00:07:23,140 --> 00:07:18,760
thought was to share it

132
00:07:26,920 --> 00:07:23,150
meanwhile at that moment 7,500 miles

133
00:07:31,420 --> 00:07:26,930
away I had an incredible dream it's like

134
00:07:34,240 --> 00:07:31,430
I have very clear picture of this dream

135
00:07:37,510 --> 00:07:34,250
I was in in the dream I was in a yoga

136
00:07:42,010 --> 00:07:37,520
class and all the students were on straw

137
00:07:46,540 --> 00:07:42,020
mats and the yoga teacher came over to

138
00:07:48,610 --> 00:07:46,550

me and he put one hand at the base of my

139

00:07:51,430 --> 00:07:48,620

spine and the other hand at the top of

140

00:07:56,260 --> 00:07:51,440

my spine and in the dream I went into

141

00:07:59,640 --> 00:07:56,270

total bliss I woke up us oh my god what

142

00:08:03,790 --> 00:07:59,650

was that it was incredible

143

00:08:08,350 --> 00:08:03,800

well this is the yoga teacher of my

144

00:08:10,470 --> 00:08:08,360

dream and how I found that out a couple

145

00:08:13,380 --> 00:08:10,480

days later I wanted to get books on

146

00:08:17,260 --> 00:08:13,390

Biomagnetism so I went to Harvard Square

147

00:08:19,120 --> 00:08:17,270

to the used bookstore and I asked do you

148

00:08:21,990 --> 00:08:19,130

have any books on Biomagnetism the guy

149

00:08:26,800 --> 00:08:22,000

said go downstairs and on top of a shelf

150

00:08:30,610 --> 00:08:26,810

priced but not not shelved yet was a

151

00:08:32,920 --> 00:08:30,620

pile of the books on Biomagnetism all

152

00:08:33,800 --> 00:08:32,930

you could want somebody had collected

153

00:08:37,279 --> 00:08:33,810

them and sold

154

00:08:40,490 --> 00:08:37,289

the bookstore well that was easy so I

155

00:08:43,940 --> 00:08:40,500

thought well what do I do now and I saw

156

00:08:45,590 --> 00:08:43,950

a sign to the new age and spirituality

157

00:08:48,470 --> 00:08:45,600

section so I went in there and I looked

158

00:08:49,570 --> 00:08:48,480

up and there was this book with a

159

00:08:52,820 --> 00:08:49,580

picture

160

00:08:55,790 --> 00:08:52,830

totally recognizable I mean how many

161

00:09:00,050 --> 00:08:55,800

people look like that of the yoga

162

00:09:02,300 --> 00:09:00,060

teacher in my dream oh this by the way

163

00:09:07,880 --> 00:09:02,310

kind of dissolved my materialist

164

00:09:09,980 --> 00:09:07,890

philosophy I thought I could explain

165

00:09:12,530 --> 00:09:09,990

everything by the laws of chemistry and

166

00:09:15,160 --> 00:09:12,540

physics and biology and this was

167

00:09:19,519 --> 00:09:15,170

something else what what you might call

168

00:09:24,110 --> 00:09:19,529

anomalous I was thinking about this the

169

00:09:27,680 --> 00:09:24,120

other day though and I was thinking what

170

00:09:30,250 --> 00:09:27,690

is bliss I have an idea of what bliss is

171

00:09:33,110 --> 00:09:30,260

and just an idea from my own experience

172

00:09:35,240 --> 00:09:33,120

it's when all the circuits are working

173

00:09:38,360 --> 00:09:35,250

in my but it's a total body experience

174

00:09:40,400 --> 00:09:38,370

for me everything is working everything

175

00:09:45,170 --> 00:09:40,410

is connected to everything else it's

176

00:09:47,510 --> 00:09:45,180

just delicious feeling and I was

177

00:09:52,910 --> 00:09:47,520

thinking out now how could that be

178

00:09:57,079 --> 00:09:52,920

transferred across 7500 miles I'm

179

00:09:59,300 --> 00:09:57,089

getting materialistic realizing that our

180

00:10:01,610 --> 00:09:59,310

bodies are crystals we are made of

181

00:10:04,160 --> 00:10:01,620

liquid crystals crystals are great

182

00:10:07,100 --> 00:10:04,170

resonant antennas by directional

183

00:10:09,370 --> 00:10:07,110

antennas they're used to tune radio

184

00:10:11,990 --> 00:10:09,380

receivers and transmitters and so on

185

00:10:16,130 --> 00:10:12,000

maybe while Betty was having this

186

00:10:18,710 --> 00:10:16,140

blissful experience her body was

187

00:10:22,250 --> 00:10:18,720

radiating that experience and I was

188

00:10:27,160 --> 00:10:22,260

picking it up because because I mean who

189

00:10:34,990 --> 00:10:27,170

knows because we were so close so

190

00:10:38,090 --> 00:10:35,000

connected and it worked and I remembered

191

00:10:42,470 --> 00:10:38,100

the founder of Naropa University here in

192

00:10:45,800 --> 00:10:42,480

Boulder Trungpa wrote this book cutting

193

00:10:47,000 --> 00:10:45,810

through spiritual materialism I was

194

00:10:51,260 --> 00:10:47,010

doing spirit

195

00:10:55,820 --> 00:10:51,270

materialism so what's the deal here

196

00:10:58,670 --> 00:10:55,830

am i materialistic or not or maybe I

197

00:11:02,750 --> 00:10:58,680

shouldn't bother thinking about it maybe

198

00:11:06,170 --> 00:11:02,760

it doesn't matter and yesterday somebody

199

00:11:10,070 --> 00:11:06,180

did a little diagram of the connection

200

00:11:12,290 --> 00:11:10,080

between mind body and spirit maybe

201

00:11:15,650 --> 00:11:12,300

that's just a ridiculous thing to try to

202

00:11:18,230 --> 00:11:15,660

connect maybe that's all we are is mind

203

00:11:20,270 --> 00:11:18,240

body and spirit I've been to lots of

204

00:11:22,010 --> 00:11:20,280

lectures where people say today I'm

205

00:11:25,310 --> 00:11:22,020

going to tell you about the connections

206

00:11:27,650 --> 00:11:25,320

between mind and body I know that there

207

00:11:30,530 --> 00:11:27,660

aren't any connections between mind and

208

00:11:32,600 --> 00:11:30,540

body because the body and the mind are

209

00:11:33,680 --> 00:11:32,610

the same thing and you can't connect

210

00:11:35,930 --> 00:11:33,690

something to itself

211

00:11:37,700 --> 00:11:35,940

anyway that's what has been going

212

00:11:40,250 --> 00:11:37,710

through my mind so the quantum

213

00:11:42,860 --> 00:11:40,260

information field what are you talking

214

00:11:45,170 --> 00:11:42,870

about an explanation for all of the

215

00:11:46,550 --> 00:11:45,180

anomalous phenomena we have come to know

216

00:11:47,240 --> 00:11:46,560

and love and talked about in this

217

00:11:49,550 --> 00:11:47,250

conference

218

00:11:57,320 --> 00:11:49,560

I've even include Bankston here as his

219

00:12:00,170 --> 00:11:57,330

own sort of he's an anomaly so there we

220

00:12:03,080 --> 00:12:00,180

are and this is indras net the Buddhists

221

00:12:05,630 --> 00:12:03,090

conception of reality in the background

222

00:12:07,430 --> 00:12:05,640

and after thinking about this for a

223

00:12:11,510 --> 00:12:07,440

while the pieces have started to come

224

00:12:14,660 --> 00:12:11,520

together I get these emails from Cora

225

00:12:17,840 --> 00:12:14,670

and Cora is where people ask questions

226

00:12:20,540 --> 00:12:17,850

and physicists answer the questions and

227

00:12:22,520 --> 00:12:20,550

somebody asked a question about space

228

00:12:26,720 --> 00:12:22,530

and the structure or the fabric of space

229

00:12:27,980 --> 00:12:26,730

and one of the physicists answered space

230

00:12:30,680 --> 00:12:27,990

doesn't have a structure there's no

231

00:12:35,060 --> 00:12:30,690

structure to space there's no there are

232

00:12:37,310 --> 00:12:35,070

no equations for it give me a break

233

00:12:40,460 --> 00:12:37,320

that doesn't exist if there are no

234

00:12:43,070 --> 00:12:40,470

equations if he wants equations take a

235

00:12:47,540 --> 00:12:43,080

look at this book the geometric universe

236

00:12:50,830 --> 00:12:47,550

by Roger Penrose or this one an overview

237

00:12:55,850 --> 00:12:50,840

of Twister string and quantum theory

238

00:12:57,980 --> 00:12:55,860

tons of equations so and I think this is

239

00:12:59,710 --> 00:12:57,990

important because when we get down to

240

00:13:04,210 --> 00:12:59,720

specifics of what these are nom

241

00:13:06,160 --> 00:13:04,220

or doing and how they happen we need

242

00:13:08,710 --> 00:13:06,170

these equations so this is putting

243

00:13:10,720 --> 00:13:08,720

together the puzzle the holographic

244

00:13:14,619 --> 00:13:10,730

universe the fractal universe the

245

00:13:19,119 --> 00:13:14,629

tenseiga's fabric of space Phi or sacred

246

00:13:20,949 --> 00:13:19,129

geometry and put these together and a

247

00:13:26,860 --> 00:13:20,959

few other things and we've got a pretty

248

00:13:29,590 --> 00:13:26,870

well defined useful model sacred

249

00:13:32,499 --> 00:13:29,600

geometry I got into because I went to

250

00:13:37,420 --> 00:13:32,509

Barcelona and I met the fellow who

251

00:13:39,749 --> 00:13:37,430

developed this device for protecting

252

00:13:45,280 --> 00:13:39,759

people from electromagnetic pollution

253

00:13:48,850 --> 00:13:45,290

and there's a small one I have a small

254

00:13:51,400 --> 00:13:48,860

one on the back of my phone I have this

255

00:13:54,400 --> 00:13:51,410

one that I carry in my pocket and this

256

00:13:58,119 --> 00:13:54,410

other one takes care of my whole office

257

00:14:02,129 --> 00:13:58,129

and there are lots of gadgets like this

258

00:14:05,650 --> 00:14:02,139

out there what I liked about this was

259

00:14:09,069 --> 00:14:05,660

that this elderly gentleman had gotten

260

00:14:12,850 --> 00:14:09,079

this together in totally intuitively

261

00:14:16,019 --> 00:14:12,860

based on dreams and flashes of insight I

262

00:14:19,900 --> 00:14:18,340

Einstein said the intellect has little

263

00:14:22,299 --> 00:14:19,910

to do on the road to discovery there

264

00:14:24,340 --> 00:14:22,309

comes a leap in consciousness call it

265

00:14:26,379 --> 00:14:24,350

intuition and what you will and the

266

00:14:31,990 --> 00:14:26,389

solution comes to you and you don't know

267

00:14:36,449 --> 00:14:32,000

how or why and I have to say that after

268

00:14:38,340 --> 00:14:36,459

that experience with Betty in Tibet or

269

00:14:43,059 --> 00:14:38,350

Darjeeling

270

00:14:47,139 --> 00:14:43,069

my intuition has really perked up and in

271

00:14:52,299 --> 00:14:47,149

fact that fellow who invented this they

272

00:14:56,559 --> 00:14:52,309

had tested it at five universities in

273

00:14:58,509 --> 00:14:56,569

Spain and it works great but none of the

274

00:15:00,249 --> 00:14:58,519

scientists who did the testing could

275

00:15:05,129 --> 00:15:00,259

understand how it works

276

00:15:08,889 --> 00:15:05,139

so Jim can you explain how this works I

277

00:15:11,350 --> 00:15:08,899

said sure I didn't have any idea but I

278

00:15:11,760 --> 00:15:11,360

had total faith in my intuition that if

279

00:15:20,880 --> 00:15:11,770

I

280

00:15:24,090 --> 00:15:20,890

was that it had sacred geometry it had

281

00:15:26,130 --> 00:15:24,100

the flower of life on it and that was

282

00:15:28,380 --> 00:15:26,140

part of the story and I had to dig into

283

00:15:34,260 --> 00:15:28,390

what is the flower of life and that took

284

00:15:41,340 --> 00:15:34,270

a while eventually I got a t-shirt and I

285

00:15:43,800 --> 00:15:41,350

got I got a had a muscle tester a very

286

00:15:50,040 --> 00:15:43,810

experienced this is the part of the

287

00:15:53,340 --> 00:15:50,050

lecture right undress anyway there it is

288

00:15:56,250 --> 00:15:53,350

and an experience muscle tester showed

289

00:15:58,590 --> 00:15:56,260

me that I'm stronger when I'm wearing

290

00:15:59,370 --> 00:15:58,600

this t-shirt and the colors are

291

00:16:01,800 --> 00:15:59,380

important

292

00:16:04,110 --> 00:16:01,810

isn't that interesting I have a black

293

00:16:06,840 --> 00:16:04,120

and white one it works but it's not as

294

00:16:12,240 --> 00:16:06,850

good as the one with the colors how

295

00:16:14,550 --> 00:16:12,250

about that sacred geometry

296

00:16:17,400 --> 00:16:14,560

well after researching it and

297

00:16:20,310 --> 00:16:17,410

recognizing that this symbol has been

298

00:16:22,350 --> 00:16:20,320

found on temples ancient temples in

299

00:16:25,620 --> 00:16:22,360

every culture in the world

300

00:16:27,570 --> 00:16:25,630

it's an ancient symbol the ancients knew

301
00:16:29,400 --> 00:16:27,580
something that we don't seem to

302
00:16:32,100 --> 00:16:29,410
understand and all of the great minds

303
00:16:34,170 --> 00:16:32,110
down through the ages have beat their

304
00:16:38,940 --> 00:16:34,180
brains out trying to figure out why this

305
00:16:40,620 --> 00:16:38,950
is such a powerful symbol and I say it's

306
00:16:43,260 --> 00:16:40,630
the geometry of the quantum information

307
00:16:46,380 --> 00:16:43,270
field and that's why it's so powerful

308
00:16:48,390 --> 00:16:46,390
and that's what it has to do so the

309
00:16:53,300 --> 00:16:48,400
mathematics of space is the golden ratio

310
00:16:58,590 --> 00:16:53,310
or Phi and it's a specific number and in

311
00:17:02,520 --> 00:16:58,600
2010 a group of top-notch physicists

312
00:17:05,640 --> 00:17:02,530
from Europe reported a decade-long study

313
00:17:07,970 --> 00:17:05,650

showing that solid matter has quantum

314

00:17:10,800 --> 00:17:07,980

properties defined by the golden ratio

315

00:17:13,440 --> 00:17:10,810

famous from art and architecture the

316

00:17:15,199 --> 00:17:13,450

findings were published in the journal

317

00:17:17,310 --> 00:17:15,209

Science

318

00:17:22,350 --> 00:17:17,320

isn't that interesting here's what they

319

00:17:25,230 --> 00:17:22,360

did they made strings of my opium atoms

320

00:17:28,890 --> 00:17:25,240

these are one atom thick string

321

00:17:30,990 --> 00:17:28,900

these are magnetic atoms and they

322

00:17:35,130 --> 00:17:31,000

plucked the strings as though they were

323

00:17:39,990 --> 00:17:35,140

guitar strings boy and the frequencies

324

00:17:46,290 --> 00:17:40,000

that came out had the ratio of the

325

00:17:48,570 --> 00:17:46,300

golden mean resonant notes the first two

326

00:17:50,640 --> 00:17:48,580

notes show a perfect relationship to

327

00:17:53,250 --> 00:17:50,650

each other their frequencies are in the

328

00:17:56,370 --> 00:17:53,260

ratio of 1.618

329

00:17:58,350 --> 00:17:56,380

which is the golden ratio and this

330

00:18:00,530 --> 00:17:58,360

reflects a beautiful property of the

331

00:18:03,240 --> 00:18:00,540

quantum system a hidden symmetry

332

00:18:06,480 --> 00:18:03,250

actually quite a special one called

333

00:18:10,310 --> 00:18:06,490

eh by mathematicians and this is its

334

00:18:13,080 --> 00:18:10,320

first observation in a material and

335

00:18:16,850 --> 00:18:13,090

interestingly there's another paper this

336

00:18:19,530 --> 00:18:16,860

is from 2013

337

00:18:23,310 --> 00:18:19,540

recognizing the similar ratio working

338

00:18:26,640 --> 00:18:23,320

for the radii of the atomic ionic and

339

00:18:30,870 --> 00:18:26,650

Bohr radii that are related to the

340

00:18:32,669 --> 00:18:30,880

golden ratio holography every part of

341

00:18:35,310 --> 00:18:32,679

the fabric contains information about

342

00:18:38,090 --> 00:18:35,320

the whole fabric encoded as for example

343

00:18:40,680 --> 00:18:38,100

by standing waves and by other things

344

00:18:43,290 --> 00:18:40,690

lots of books on holography so the

345

00:18:48,120 --> 00:18:43,300

pieces of this puzzle I'm trying to put

346

00:18:50,250 --> 00:18:48,130

together to understand anomalies there

347

00:18:53,010 --> 00:18:50,260

they're all known to you and they're

348

00:18:55,770 --> 00:18:53,020

there a lot of detailed scholarly

349

00:18:58,770 --> 00:18:55,780

investigation the holographic universe

350

00:19:01,230 --> 00:18:58,780

Michael Talbot awakening the holographic

351

00:19:04,820 --> 00:19:01,240

human a lot of people think that the

352

00:19:07,169 --> 00:19:04,830

human body is a hologram fractality is

353

00:19:09,630 --> 00:19:07,179

recursive have you ever stood in an

354

00:19:11,250 --> 00:19:09,640

elevator that has a mirror on each side

355

00:19:12,720 --> 00:19:11,260

and you look in the mirror and you see

356

00:19:14,460 --> 00:19:12,730

your reflection and then you see the

357

00:19:16,919 --> 00:19:14,470

reflection of your reflection and so on

358

00:19:22,760 --> 00:19:16,929

and so on the pattern repeat it repeats

359

00:19:31,030 --> 00:19:26,460

all scales as in a Mandelbrot set and

360

00:19:43,120 --> 00:19:38,470

oh there goes the mandelbrot and this is

361

00:19:47,670 --> 00:19:43,130

from a YouTube video which is very nice

362

00:19:52,540 --> 00:19:47,680

the Mandelbrot set and fractal patterns

363

00:19:55,120 --> 00:19:52,550

this is part of the project my project

364

00:19:58,680 --> 00:19:55,130

from understanding this or putting this

365

00:20:02,500 --> 00:19:58,690

together is to figure out how the

366

00:20:08,350 --> 00:20:02,510

Sheldrake's morphic field works I think

367

00:20:10,330 --> 00:20:08,360

that the discussed that many scientists

368

00:20:15,250 --> 00:20:10,340

have had for Sheldrake is very poorly

369

00:20:18,340 --> 00:20:15,260

placed he has a possible mechanism for

370

00:20:24,190 --> 00:20:18,350

the greatest unsolved problem in science

371

00:20:27,460 --> 00:20:24,200

how you became you from a single cell so

372

00:20:33,420 --> 00:20:27,470

I think the morphic field is in the

373

00:20:46,300 --> 00:20:39,310

okay let me just go to the end there's

374

00:20:51,520 --> 00:20:46,310

more these are ideas of what it might

375

00:20:56,320 --> 00:20:51,530

look like to small to see but on the

376

00:21:00,460 --> 00:20:56,330

basis of what we can discern from

377

00:21:06,280 --> 00:21:00,470

physics and studies of all kinds an

378

00:21:12,760 --> 00:21:06,290

important breakthrough I'll just give

379

00:21:15,550 --> 00:21:12,770

you this bit this is this is from the

380

00:21:17,970 --> 00:21:15,560

recent discovery of gravitational waves

381

00:21:20,140 --> 00:21:17,980

and this was a monstrous project

382

00:21:23,700 --> 00:21:20,150

involving lots of money and lots of

383

00:21:31,620 --> 00:21:23,710

scientists working hard and very in very

384

00:21:39,340 --> 00:21:35,980

her name is Holly Brockman gave a TED

385

00:21:41,940 --> 00:21:39,350

talk her arms are representing the arms

386

00:21:46,919 --> 00:21:41,950

of the LIGO

387

00:21:52,039 --> 00:21:46,929

laser interferometer gravitational

388

00:21:55,890 --> 00:21:52,049

observatory and here's what she says you

389

00:21:58,110 --> 00:21:55,900

are matter you move all throughout life

390

00:22:00,000 --> 00:21:58,120

you make gravitational waves every move

391

00:22:01,919 --> 00:22:00,010

you make every choice you make

392

00:22:04,530 --> 00:22:01,929

throughout your life is making

393

00:22:07,320 --> 00:22:04,540

gravitational waves propagating away

394

00:22:09,750 --> 00:22:07,330

from you at the speed of light and long

395

00:22:12,150 --> 00:22:09,760

after you were gone that imprint you

396

00:22:15,049 --> 00:22:12,160

have made in the universe will exist

397

00:22:20,430 --> 00:22:15,059

everything we do is recorded as

398

00:22:23,130 --> 00:22:20,440

gravitational phenomena and this is from

399

00:22:27,630 --> 00:22:23,140

a new age journal called physical review

400

00:22:30,360 --> 00:22:27,640

d and they are saying the same thing the

