

Smooth-Kalman 3-D curved space-time



World-line of particle

The 3-D kinetic energy of the particle has been reduced to a 3-D potential energy along the static world-line.

3-D isotropic space with varying field density

1
00:00:08,990 --> 00:00:04,610
is Jimmy clear and the gym is going to

2
00:00:10,910 --> 00:00:09,000
talk about physics in the dark well

3
00:00:13,190 --> 00:00:10,920
despite the title I think I'm go change

4
00:00:19,160 --> 00:00:13,200
that to last talk on how to destroy a

5
00:00:21,890 --> 00:00:19,170
paradigm our ok now the social nature

6
00:00:24,320 --> 00:00:21,900
both dark matter and dark energy are the

7
00:00:26,179 --> 00:00:24,330
crises in physics in our modern day

8
00:00:28,480 --> 00:00:26,189
these make the crises before the second

9
00:00:30,769 --> 00:00:28,490
evolution look like petunias is

10
00:00:34,459 --> 00:00:30,779
generally assumed at explaining either

11
00:00:39,799 --> 00:00:34,469
one and basic them together will lead to

12
00:00:41,510 --> 00:00:39,809
a scientific revolution met 2005 the

13
00:00:45,080 --> 00:00:41,520

government formed a dark empty task

14

00:00:48,229 --> 00:00:45,090

force are various some NSF NSA

15

00:00:50,150 --> 00:00:48,239

government energy and such are the issue

16

00:00:53,750 --> 00:00:50,160

report has been on the internet for four

17

00:00:56,810 --> 00:00:53,760

years this is not the conclusion this is

18

00:00:58,520 --> 00:00:56,820

a paragraph on the cover page and you'll

19

00:01:00,260 --> 00:00:58,530

notice rate the mill says our theories

20

00:01:03,619 --> 00:01:00,270

of fundamental particles of gravity or

21

00:01:05,479 --> 00:01:03,629

either incomplete or incorrect most

22

00:01:08,210 --> 00:01:05,489

experts believe is nothing short of a

23

00:01:09,920 --> 00:01:08,220

revolution in our understanding of

24

00:01:11,570 --> 00:01:09,930

fundamental physics will be required to

25

00:01:13,550 --> 00:01:11,580

achieve a full understanding of the

26

00:01:15,200 --> 00:01:13,560

cosmic acceleration but actually it's a

27

00:01:17,870 --> 00:01:15,210

revolution in physics not just for

28

00:01:20,840 --> 00:01:17,880

cosmic acceleration this will not just

29

00:01:22,940 --> 00:01:20,850

be a revolution in physics but a

30

00:01:25,010 --> 00:01:22,950

complete revolution that will include

31

00:01:27,530 --> 00:01:25,020

both mind or consciousness and our

32

00:01:29,240 --> 00:01:27,540

normal science there will be a new way

33

00:01:31,039 --> 00:01:29,250

of thinking by our universe because

34

00:01:32,990 --> 00:01:31,049

science has found all of a sudden for

35

00:01:35,090 --> 00:01:33,000

the first time in history it has to

36

00:01:36,830 --> 00:01:35,100

explain the fundamental nature of matter

37

00:01:40,100 --> 00:01:36,840

it's never had to before it measured

38

00:01:41,600 --> 00:01:40,110

never never explained it in order to

39

00:01:43,280 --> 00:01:41,610

explain narrow you have to differentiate

40

00:01:45,289 --> 00:01:43,290

between the consciousness that is

41

00:01:48,520 --> 00:01:45,299

interpreting the data and the matter

42

00:01:51,200 --> 00:01:48,530

that is interpreting are many ways

43

00:01:53,060 --> 00:01:51,210

suggestions and hypotheses have been put

44

00:01:57,679 --> 00:01:53,070

forward to explain both dark matter and

45

00:02:00,709 --> 00:01:57,689

dark energy but no hypothesis coming our

46

00:02:04,490 --> 00:02:00,719

mainstream physics is either explain one

47

00:02:06,350 --> 00:02:04,500

what along both of them even though most

48

00:02:08,389 --> 00:02:06,360

physicists agree that the eventual

49

00:02:11,150 --> 00:02:08,399

explanation will have to explain both at

50

00:02:13,160 --> 00:02:11,160

the same time having said that dark

51
00:02:18,910 --> 00:02:13,170
matter and dark matter or easily

52
00:02:26,300 --> 00:02:23,750
as each other matter as each star star

53
00:02:28,940 --> 00:02:26,310
system is added to the galaxy they found

54
00:02:31,820 --> 00:02:28,950
by accretion to the central core it has

55
00:02:34,759 --> 00:02:31,830
a component of gravitational energy or

56
00:02:36,500 --> 00:02:34,769
gravitational mass driver asli as well

57
00:02:38,360 --> 00:02:36,510
as an extra component that corresponds

58
00:02:39,650 --> 00:02:38,370
to the third dimensionality of the

59
00:02:43,490 --> 00:02:39,660
Galactic plane in other words I am

60
00:02:46,790 --> 00:02:43,500
hypothesizing a macroscopically extended

61
00:02:48,140 --> 00:02:46,800
first dimension of space or if you want

62
00:02:50,000 --> 00:02:48,150
to talk space-time it's the fifth

63
00:02:51,290 --> 00:02:50,010

dimension of space time so sometimes I

64

00:02:53,930 --> 00:02:51,300

talk about fourth dimension space

65

00:02:55,160 --> 00:02:53,940

thinking in my Newtonian half no time to

66

00:02:58,100 --> 00:02:55,170

talk about a five dimensional space-time

67

00:03:01,759 --> 00:02:58,110

talking in my aunts tiny in half and

68

00:03:04,640 --> 00:03:01,769

this is just a simple right diagram the

69

00:03:05,990 --> 00:03:04,650

more stars here this is the positive

70

00:03:10,190 --> 00:03:06,000

curvature according to general

71

00:03:13,369 --> 00:03:10,200

relativity of the universe you have now

72

00:03:16,850 --> 00:03:13,379

I hear no matter accretes and slowly the

73

00:03:19,190 --> 00:03:16,860

galaxy films as it does extends outward

74

00:03:21,350 --> 00:03:19,200

extends out of both directions according

75

00:03:23,540 --> 00:03:21,360

to its own internal three dimensionality

76

00:03:25,490 --> 00:03:23,550

that three dimensionality is much

77

00:03:27,530 --> 00:03:25,500

stronger than the floor dimensionality

78

00:03:30,140 --> 00:03:27,540

of the curve of the universe I'm talking

79

00:03:32,300 --> 00:03:30,150

about and then an extrinsic curvature of

80

00:03:34,280 --> 00:03:32,310

the universe normal general relativity

81

00:03:36,500 --> 00:03:34,290

has an intrinsic curvature and has no

82

00:03:39,229 --> 00:03:36,510

need for the higher dimension so this is

83

00:03:43,150 --> 00:03:39,239

next insecure where does it opens up the

84

00:03:48,690 --> 00:03:43,160

gap between the universe universal

85

00:03:52,120 --> 00:03:48,700

richer and the filming galaxy this gap

86

00:03:53,710 --> 00:03:52,130

cannot happen but you have to have is

87

00:03:56,800 --> 00:03:53,720

continuity with the rest of the space

88

00:03:58,300 --> 00:03:56,810

around so it forms this this is the

89

00:04:00,430 --> 00:03:58,310

continuity for the rest of the rest of

90

00:04:03,220 --> 00:04:00,440

the open space between galaxies to the

91

00:04:04,990 --> 00:04:03,230

galaxy in the fourth dimension in other

92

00:04:06,490 --> 00:04:05,000

words we're standing three dimensionally

93

00:04:12,340 --> 00:04:06,500

but three eventually into the fourth

94

00:04:15,190 --> 00:04:12,350

dimension now I already see though in

95

00:04:17,020 --> 00:04:15,200

reality where we see because this

96

00:04:19,990 --> 00:04:17,030

curvature does not affect author

97

00:04:23,170 --> 00:04:20,000

magnetism it's purely material what we

98

00:04:26,320 --> 00:04:23,180

see is this galaxy fits the curvature of

99

00:04:29,440 --> 00:04:26,330

the earth which leaves a halo around it

100

00:04:31,150 --> 00:04:29,450

which is a curve now that curve is

101
00:04:32,800 --> 00:04:31,160
actually due to the interaction of the

102
00:04:35,320 --> 00:04:32,810
rest of the matter of the universe and

103
00:04:36,730 --> 00:04:35,330
the galaxies because this curvature as a

104
00:04:41,770 --> 00:04:36,740
result of the rest of the matter of the

105
00:04:44,530 --> 00:04:41,780
universe now our classical paradigm this

106
00:04:46,570 --> 00:04:44,540
is electromagnetic you've got a charge

107
00:04:49,900 --> 00:04:46,580
in a scalar potential electric field

108
00:04:52,920 --> 00:04:49,910
plus the charge moving gives magnetism

109
00:04:55,210 --> 00:04:52,930
to the particle moving and then it

110
00:04:57,790 --> 00:04:55,220
interacts with the vector interacts with

111
00:05:00,610 --> 00:04:57,800
the ambient magnetic field that's a

112
00:05:03,250 --> 00:05:00,620
vector potential field but Bradley is

113
00:05:05,590 --> 00:05:03,260

only f is equal to mg in a scalar

114

00:05:08,080 --> 00:05:05,600

potential field and then that leads to

115

00:05:09,640 --> 00:05:08,090

Einstein's relativity Einstein's

116

00:05:13,330 --> 00:05:09,650

relativity general relativity this is

117

00:05:15,390 --> 00:05:13,340

just the metric of space space time this

118

00:05:17,590 --> 00:05:15,400

is a new paradigm this fits that

119

00:05:21,360 --> 00:05:17,600

geometrical picture I just showed you I

120

00:05:25,240 --> 00:05:21,370

add a new component here NV cross γ

121

00:05:26,830 --> 00:05:25,250

this is this mass this velocity would be

122

00:05:29,890 --> 00:05:26,840

the velocity of stars the

123

00:05:32,530 --> 00:05:29,900

gravitationally derived mass our ball

124

00:05:35,020 --> 00:05:32,540

co-stars moving around the galaxy but

125

00:05:37,360 --> 00:05:35,030

then they interact as a cross product as

126

00:05:39,400 --> 00:05:37,370

a vector potential with gamma where

127

00:05:41,380 --> 00:05:39,410

gamma is that curvature represents a

128

00:05:43,450 --> 00:05:41,390

gravitational attraction of the rest of

129

00:05:48,820 --> 00:05:43,460

the universe and that's what forms the

130

00:05:50,620 --> 00:05:48,830

extra curvature for dark matter now so

131

00:05:52,330 --> 00:05:50,630

now I'm saying instead of intrinsic

132

00:05:54,100 --> 00:05:52,340

geometry for general relative

133

00:05:56,140 --> 00:05:54,110

we have an extrinsic geometry which

134

00:05:57,909 --> 00:05:56,150

requires higher fourth dimension other

135

00:06:00,340 --> 00:05:57,919

it's a real curvature and higher

136

00:06:04,300 --> 00:06:00,350

dimension not just a term that

137

00:06:06,100 --> 00:06:04,310

mathematicians put on it now we have

138

00:06:08,320 --> 00:06:06,110

scaled potential scalar potential which

139

00:06:10,330 --> 00:06:08,330

are three dimensional vector potential

140

00:06:12,879 --> 00:06:10,340

magnetism and this is also a vector

141

00:06:17,560 --> 00:06:12,889

potential field so make so Bradley has

142

00:06:20,590 --> 00:06:17,570

and as yet unknown or on I should say

143

00:06:22,840 --> 00:06:20,600

not known to the paradigm vector

144

00:06:24,879 --> 00:06:22,850

potential field and if you look at this

145

00:06:27,280 --> 00:06:24,889

this is the rest of gravity of the

146

00:06:29,620 --> 00:06:27,290

universe interacting with envy the

147

00:06:31,120 --> 00:06:29,630

momentum or the inertial his body this

148

00:06:32,290 --> 00:06:31,130

is just machs principle in a

149

00:06:34,360 --> 00:06:32,300

mathematical form machs principle

150

00:06:36,159 --> 00:06:34,370

because we have somebody talked about it

151

00:06:39,879 --> 00:06:36,169

yesterday it's been known for well over

152

00:06:44,500 --> 00:06:39,889

a hundred years so since this is nothing

153

00:06:46,420 --> 00:06:44,510

new but it is new now when you have them

154

00:06:49,390 --> 00:06:46,430

is the extrinsic curvature on the

155

00:06:51,310 --> 00:06:49,400

outside is dark matter but same time

156

00:06:53,640 --> 00:06:51,320

this vector potential field is dark

157

00:06:55,540 --> 00:06:53,650

energy I just destroyed the paradigm

158

00:06:58,719 --> 00:06:55,550

there's dark matter and dark energy

159

00:07:01,180 --> 00:06:58,729

explained in other words that extra

160

00:07:04,390 --> 00:07:01,190

curvature that extra curvatures they'll

161

00:07:08,710 --> 00:07:04,400

all creator of the universe is dark

162

00:07:11,560 --> 00:07:08,720

matter dark energy is the thickness of

163

00:07:12,990 --> 00:07:11,570

that curvature it's not infant tested a

164

00:07:16,029 --> 00:07:13,000

small it actually has a small thickness

165

00:07:20,350 --> 00:07:16,039

in the higher dimension and that is dark

166

00:07:25,150 --> 00:07:20,360

energy now you can graph it quite easily

167

00:07:27,760 --> 00:07:25,160

oops if we got the normal gravitational

168

00:07:31,120 --> 00:07:27,770

potential this is glad decoy this is

169

00:07:32,620 --> 00:07:31,130

black trim this is f equals mg this is

170

00:07:34,360 --> 00:07:32,630

my new component which should just be a

171

00:07:36,339 --> 00:07:34,370

straight line up here you have these two

172

00:07:39,070 --> 00:07:36,349

together you get a curve like this which

173

00:07:41,860 --> 00:07:39,080

is that is the curve off the internet

174

00:07:43,690 --> 00:07:41,870

for Andromeda showing it's a graph of

175

00:07:46,029 --> 00:07:43,700

the speeds rotational speeds around

176

00:07:50,860 --> 00:07:46,039

graphic or as radial distance increases

177

00:07:52,930 --> 00:07:50,870

outward fits a curve perfectly now if

178

00:07:54,550 --> 00:07:52,940

you spin out more enjoy in terms of gel

179

00:07:57,559 --> 00:07:54,560

relativity this is our normal

180

00:08:00,619 --> 00:07:57,569

three-dimensional space if we reckon

181

00:08:02,269 --> 00:08:00,629

intrinsically then space around saying

182

00:08:05,029 --> 00:08:02,279

this is this is the curve for say the

183

00:08:06,739 --> 00:08:05,039

Sun the curve actually gets denser in

184

00:08:08,959 --> 00:08:06,749

three-dimensional space that's intrinsic

185

00:08:11,269 --> 00:08:08,969

curvature experience if you'll go like

186

00:08:13,519 --> 00:08:11,279

this so this is guru on the Sun the

187

00:08:16,159 --> 00:08:13,529

scalar potential for robbery and

188

00:08:18,169 --> 00:08:16,169

electricity would just be sparkler than

189

00:08:21,679 --> 00:08:18,179

the vector potential for the magnetism

190

00:08:23,499 --> 00:08:21,689

of gravity would be the site up here so

191

00:08:25,579 --> 00:08:23,509

there is a vector potential in

192

00:08:27,799 --> 00:08:25,589

three-dimensional space actually becomes

193

00:08:35,300 --> 00:08:27,809

a scalar potential in four-dimensional

194

00:08:36,709 --> 00:08:35,310

space now this is this is a Clifford

195

00:08:38,120 --> 00:08:36,719

Newtonian afterward in kingwood

196

00:08:40,069 --> 00:08:38,130

Clifford's because he had four

197

00:08:42,499 --> 00:08:40,079

dimensional space in 1870 a bit before

198

00:08:44,559 --> 00:08:42,509

Einstein so the nuclear would surely

199

00:08:47,090 --> 00:08:44,569

look like this an object moving around

200

00:08:48,530 --> 00:08:47,100

we look like this this might be the Sun

201
00:08:50,300 --> 00:08:48,540
here's an object moving around the Sun

202
00:08:52,490 --> 00:08:50,310
it's got its own curvature own inherent

203
00:08:55,819 --> 00:08:52,500
creature this might be mercury going

204
00:08:58,550 --> 00:08:55,829
around the Sun in all good run sun or

205
00:09:01,189 --> 00:08:58,560
this might be a star system going around

206
00:09:03,650 --> 00:09:01,199
the center of the galaxy but that's just

207
00:09:05,840 --> 00:09:03,660
in that's just in 3rd dimensional space

208
00:09:08,120 --> 00:09:05,850
with a separate time that's why it's

209
00:09:10,550 --> 00:09:08,130
Clifford Newtonian space if I put it in

210
00:09:13,249 --> 00:09:10,560
space-time so now you have three

211
00:09:15,949 --> 00:09:13,259
dimensional space Riley where those

212
00:09:17,840 --> 00:09:15,959
already Valley I have 4th dimension and

213
00:09:21,079 --> 00:09:17,850

then time in the screen it would look

214

00:09:23,540 --> 00:09:21,089

like this so this is the real wine from

215

00:09:26,059 --> 00:09:23,550

special relativity of the particle now

216

00:09:27,470 --> 00:09:26,069

came out our dynamic energy in

217

00:09:30,620 --> 00:09:27,480

three-dimensional space then becomes

218

00:09:34,490 --> 00:09:30,630

kinematics in 3rd dimensional space or

219

00:09:37,040 --> 00:09:34,500

five dimensional space-time so then this

220

00:09:40,879 --> 00:09:37,050

would be a geodesic in the terms of

221

00:09:42,819 --> 00:09:40,889

general relativity now to do paradigm

222

00:09:45,740 --> 00:09:42,829

run an equation for what we have is

223

00:09:49,460 --> 00:09:45,750

mauer gives rise to is called the energy

224

00:09:51,740 --> 00:09:49,470

stress tensor the force of gravity

225

00:09:54,679 --> 00:09:51,750

becomes G me a new this is the metric

226

00:09:56,120 --> 00:09:54,689

tensor and the metric tensor of the

227

00:09:58,550 --> 00:09:56,130

first gravity then becomes a constant

228

00:10:00,019 --> 00:09:58,560

speed or geodesic moving along curvature

229

00:10:02,329 --> 00:10:00,029

of space which is represented by this

230

00:10:03,180 --> 00:10:02,339

this is Einstein's equation but now you

231

00:10:05,790 --> 00:10:03,190

have new

232

00:10:10,230 --> 00:10:05,800

turn the corresponds to my new term for

233

00:10:12,750 --> 00:10:10,240

gravity let's call that λ so λ

234

00:10:15,720 --> 00:10:12,760

is actually that the line I showed that

235

00:10:18,240 --> 00:10:15,730

vector in for the space time were 30

236

00:10:19,500 --> 00:10:18,250

space 5g space-time now that land is

237

00:10:20,340 --> 00:10:19,510

very important if you know general

238

00:10:25,050 --> 00:10:20,350

relativity you should have already

239

00:10:27,120 --> 00:10:25,060

recognized it because the lambda has

240

00:10:29,250 --> 00:10:27,130

already been added to get to the general

241

00:10:32,490 --> 00:10:29,260

relativistic equation as luck is called

242

00:10:34,830 --> 00:10:32,500

lambda CDM or tetanus and it's used to

243

00:10:37,620 --> 00:10:34,840

most scientists to describe dark matter

244

00:10:38,970 --> 00:10:37,630

so I'm showing you here is an eternity

245

00:10:41,310 --> 00:10:38,980

equivalent of what's already been done

246

00:10:45,210 --> 00:10:41,320

in general relativity to explain dark

247

00:10:47,820 --> 00:10:45,220

matter so you have here my equation

248

00:10:49,800 --> 00:10:47,830

again and the Royal cos gamma but

249

00:10:51,870 --> 00:10:49,810

technically this is gravitational mass

250

00:10:53,790 --> 00:10:51,880

and this is inertial mass now

251

00:10:55,530 --> 00:10:53,800

gravitational and inertial mass so we

252

00:10:57,600 --> 00:10:55,540

talked about the other day they are

253

00:10:59,790 --> 00:10:57,610

mathematically equivalent they are

254

00:11:01,950 --> 00:10:59,800

philosophically different so these two

255

00:11:04,200 --> 00:11:01,960

MGM I have the same value but that

256

00:11:07,320 --> 00:11:04,210

vector oh I should bring up in a

257

00:11:09,840 --> 00:11:07,330

previous diagram from three dimensional

258

00:11:13,440 --> 00:11:09,850

space up to the curvature is actually

259

00:11:16,260 --> 00:11:13,450

inertia that vector inside a particle

260

00:11:18,180 --> 00:11:16,270

inside material particles inertia and it

261

00:11:22,380 --> 00:11:18,190

defines the curve in the curve is mass

262

00:11:24,240 --> 00:11:22,390

so in some night now I've equated mass

263

00:11:27,990 --> 00:11:24,250

and inertia at each other that's never

264

00:11:29,550 --> 00:11:28,000

been done before either now this mi v

265

00:11:31,830 --> 00:11:29,560

well this is relative to the central

266

00:11:34,500 --> 00:11:31,840

body around which its orbiting I call

267

00:11:38,340 --> 00:11:34,510

that the Flint momentum you'll see in a

268

00:11:42,390 --> 00:11:38,350

moment now if I take this is just MZ row

269

00:11:43,890 --> 00:11:42,400

the rest mass times d dt of $X^5 X^5$

270

00:11:47,340 --> 00:11:43,900

would be a distance in that fifth

271

00:11:50,100 --> 00:11:47,350

dimension G sine theta and then you

272

00:11:52,530 --> 00:11:50,110

rewrite that because there's no sign

273

00:11:55,470 --> 00:11:52,540

theta it's perpendicular or orthogonal

274

00:11:58,440 --> 00:11:55,480

to three dimensions of space that gives

275

00:12:00,990 --> 00:11:58,450

us back or gamma factor and this is

276

00:12:04,170 --> 00:12:01,000

equation this is a length of that vector

277

00:12:09,329 --> 00:12:04,180

in that extra dimension that defines

278

00:12:11,100 --> 00:12:09,339

inertia now the front momentum what I

279

00:12:12,569 --> 00:12:11,110

call that flick momentum because there's

280

00:12:16,169 --> 00:12:12,579

a scientist called Henry teeth

281

00:12:18,749 --> 00:12:16,179

the road over 35 articles published in

282

00:12:24,619 --> 00:12:18,759

respected Ross precedes Royal Society's

283

00:12:26,879 --> 00:12:24,629

such in Great Britain between 1926 1966

284

00:12:28,619 --> 00:12:26,889

explaining this whole theory so all the

285

00:12:32,069 --> 00:12:28,629

mathematics you walk for this theory is

286

00:12:33,869 --> 00:12:32,079

influenced publications now for relates

287

00:12:36,419 --> 00:12:33,879

the basic fundamental electric charge to

288

00:12:39,269 --> 00:12:36,429

a 5d momentum five dimensional momentum

289

00:12:41,579 --> 00:12:39,279

just like I do and he defines as G over

290

00:12:43,319 --> 00:12:41,589

alpha C ralpherz is constant from the

291

00:12:45,090 --> 00:12:43,329

clues equine theory of the

292

00:12:47,100 --> 00:12:45,100

electromagnetic field and it is a

293

00:12:49,079 --> 00:12:47,110

component component of momentum of

294

00:12:51,449 --> 00:12:49,089

conjugate coordinate you five which be

295

00:12:54,509 --> 00:12:51,459

the height in the fifth dimension then

296

00:12:57,660 --> 00:12:54,519

regards the electron photon positron as

297

00:12:59,609 --> 00:12:57,670

aspects of the same thing and if you

298

00:13:00,929 --> 00:12:59,619

want to be more mathematical you take an

299

00:13:02,280 --> 00:13:00,939

integral of that five dimensional

300

00:13:05,429 --> 00:13:02,290

momentum over each of the five

301
00:13:07,109 --> 00:13:05,439
dimensions equal to n H M would be the

302
00:13:10,049 --> 00:13:07,119
principal quantum number H being the

303
00:13:12,600 --> 00:13:10,059
quantum number so this also defines the

304
00:13:13,919 --> 00:13:12,610
quantum so we have it that you have a

305
00:13:15,929 --> 00:13:13,929
surface in three-dimensional space

306
00:13:17,999 --> 00:13:15,939
curves and filter mention the ground

307
00:13:21,030 --> 00:13:18,009
state would be a sheet the second sheet

308
00:13:23,189 --> 00:13:21,040
 n equals 2 in peace propelling that will

309
00:13:25,979 --> 00:13:23,199
be the next sheet up next you have n

310
00:13:28,549 --> 00:13:25,989
equals 3 4 and so on that's how you

311
00:13:31,590 --> 00:13:28,559
include quantum i have just unified

312
00:13:33,989 --> 00:13:31,600
barely general tility in the quantum and

313
00:13:35,789 --> 00:13:33,999

five dimensional space and most of work

314

00:13:38,970 --> 00:13:35,799

has already been done by friend I'll

315

00:13:41,039 --> 00:13:38,980

just add the new term now these are

316

00:13:43,049 --> 00:13:41,049

fluence views of particles are these are

317

00:13:44,519 --> 00:13:43,059

from his personal papers no date there's

318

00:13:45,869 --> 00:13:44,529

no date on papers by soon for the

319

00:13:49,079 --> 00:13:45,879

writing that there's written during the

320

00:13:50,609 --> 00:13:49,089

50s or 60s it seems implies it's simple

321

00:13:53,009 --> 00:13:50,619

assumption of fundamental particle is

322

00:13:55,229 --> 00:13:53,019

not possible the limit must result from

323

00:13:57,030 --> 00:13:55,239

a relativistic assumption the only way

324

00:14:00,239 --> 00:13:57,040

seems to be a relativistic limit to

325

00:14:01,669 --> 00:14:00,249

measurement so Planck's constant isn't

326

00:14:04,129 --> 00:14:01,679

about particle so is about a

327

00:14:07,559 --> 00:14:04,139

relativistic limit to the measurement of

328

00:14:09,090 --> 00:14:07,569

objects in their positions in space so

329

00:14:10,979 --> 00:14:09,100

he is using the Quarren as a winning

330

00:14:12,509 --> 00:14:10,989

factor with five de menthe within a

331

00:14:15,150 --> 00:14:12,519

five-dimensional continuous field and

332

00:14:16,130 --> 00:14:15,160

safe under instead of a fundamental

333

00:14:19,790 --> 00:14:16,140

particle

334

00:14:22,790 --> 00:14:19,800

be available for Lawrence real change

335

00:14:25,070 --> 00:14:22,800

alerts areas which are arrest

336

00:14:27,170 --> 00:14:25,080

transformation require a transformation

337

00:14:29,510 --> 00:14:27,180

depending on the conditions of length in

338

00:14:33,920 --> 00:14:29,520

motion the introduction could mean that

339

00:14:36,860 --> 00:14:33,930

when it exists so fruit knew this nobody

340

00:14:41,150 --> 00:14:36,870

listened to or a few people did but he's

341

00:14:43,730 --> 00:14:41,160

totally forgotten he published his final

342

00:14:45,860 --> 00:14:43,740

three in 1966 in a book titled the

343

00:14:48,710 --> 00:14:45,870

quantum equation theory of fields is

344

00:14:51,230 --> 00:14:48,720

published by methods which is a big

345

00:14:52,730 --> 00:14:51,240

publisher in their series monographs of

346

00:14:55,340 --> 00:14:52,740

physical subjects and these are the

347

00:14:57,560 --> 00:14:55,350

chapters of the book all the mathematics

348

00:15:00,260 --> 00:14:57,570

is there except for the additional term

349

00:15:03,950 --> 00:15:00,270

that I've put in now there are other

350

00:15:05,320 --> 00:15:03,960

contributes contributors we invoice and

351

00:15:07,880 --> 00:15:05,330

derive the Klein-Gordon equation

352

00:15:10,300 --> 00:15:07,890

assuming a five-dimensional volume equal

353

00:15:13,400 --> 00:15:10,310

to Schrödinger's wave equation in 1928

354

00:15:17,390 --> 00:15:13,410

Rosen was Finn's teacher and his

355

00:15:20,660 --> 00:15:17,400

colleague at times co-author of articles

356

00:15:22,790 --> 00:15:20,670

for 19 twice it's the 66 HD Flint

357

00:15:25,240 --> 00:15:22,800

incorporated the Yukawa potential the

358

00:15:27,710 --> 00:15:25,250

Dirac equation and other quantum quantum

359

00:15:31,070 --> 00:15:27,720

fundamental core features into the 5d

360

00:15:34,450 --> 00:15:31,080

field model but they're not the only

361

00:15:37,850 --> 00:15:34,460

ones the 1995 you be home derived the

362

00:15:39,730 --> 00:15:37,860

Yukawa potential in nuclear physics

363

00:15:43,850 --> 00:15:39,740

directly from the general relativistic

364

00:15:45,680 --> 00:15:43,860

40mph three-dimensional space model of a

365

00:15:52,900 --> 00:15:45,690

third dimensional space-time my old

366

00:15:55,640 --> 00:15:52,910

speck of Na 2000-2008 um professor from

367

00:15:58,360 --> 00:15:55,650

Armstrong universities saintly shifflett

368

00:16:00,800 --> 00:15:58,370

shows that the Einstein Schrader equate

369

00:16:02,810 --> 00:16:00,810

instantiating a skew symmetric form of

370

00:16:05,510 --> 00:16:02,820

the Einstein equation with lambda CDM

371

00:16:07,670 --> 00:16:05,520

implies a five dimensional space-time

372

00:16:10,970 --> 00:16:07,680

structure so this is already other

373

00:16:13,310 --> 00:16:10,980

people who are just about where I am now

374

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

leaving foot we're living barbers from

375

00:16:17,270 --> 00:16:15,180

shifflett if the einstein curvature

376

00:16:19,220 --> 00:16:17,280

temperature is five dimensions with both

377

00:16:22,010 --> 00:16:19,230

four dimensional symmetric in a metric

378

00:16:24,380 --> 00:16:22,020

parts both gravity which is symmetric

379

00:16:26,390 --> 00:16:24,390

part in Newtonian physics f equals mg

380

00:16:28,270 --> 00:16:26,400

and on the CDN

381

00:16:30,800 --> 00:16:28,280

the anti-symmetric part of the tensor or

382

00:16:33,860 --> 00:16:30,810

what I should have had up there the mb

383

00:16:37,700 --> 00:16:33,870

cross our gamma in Newtonian physics are

384

00:16:39,110 --> 00:16:37,710

accounted for work in this plane almost

385

00:16:40,430 --> 00:16:39,120

everything I don't believe in a theory

386

00:16:42,530 --> 00:16:40,440

of everything so this will experience

387

00:16:47,780 --> 00:16:42,540

almost everything accountant view of the

388

00:16:51,020 --> 00:16:47,790

proton this is court dynamics oops shows

389

00:16:53,480 --> 00:16:51,030

a quick coat on with two ups and down

390

00:16:55,100 --> 00:16:53,490

protons as your corpse now there is

391

00:16:58,520 --> 00:16:55,110

absolutely no way this can be

392

00:16:59,990 --> 00:16:58,530

represented logically because that's a

393

00:17:01,100 --> 00:17:00,000

sphere that's the sphere that sphere and

394

00:17:02,510 --> 00:17:01,110

there's no way you can pack three

395

00:17:06,020 --> 00:17:02,520

spherical objects into a bigger

396

00:17:08,720 --> 00:17:06,030

spherical object impossible so quantum

397

00:17:11,900 --> 00:17:08,730

most quantum mechanics people assume

398

00:17:14,600 --> 00:17:11,910

point charges so you have a proton point

399

00:17:16,040 --> 00:17:14,610

with 20 points in a down poignant not

400

00:17:18,290 --> 00:17:16,050

one of them has dimensions because

401
00:17:19,490 --> 00:17:18,300
points are dimensionless so we're the

402
00:17:24,530 --> 00:17:19,500
heck to the three dimensions of space

403
00:17:27,560 --> 00:17:24,540
come from is absolutely impossible for

404
00:17:30,080 --> 00:17:27,570
particle physicist courts in any logical

405
00:17:32,930 --> 00:17:30,090
matter why because there are no physical

406
00:17:34,940 --> 00:17:32,940
particles called quarks they are just

407
00:17:36,650 --> 00:17:34,950
mathematical entities and there's

408
00:17:40,850 --> 00:17:36,660
absolutely nothing in mathematics a

409
00:17:42,860 --> 00:17:40,860
quandary that requires particles the

410
00:17:45,590 --> 00:17:42,870
particles are superimposed onto the

411
00:17:49,280 --> 00:17:45,600
mathematics this is where quarks really

412
00:17:51,800 --> 00:17:49,290
are this is our proton proton collision

413
00:17:54,950 --> 00:17:51,810

you've got a photon coming into another

414

00:17:58,070 --> 00:17:54,960

one this proton is accelerated at the

415

00:17:59,660 --> 00:17:58,080

high enough speed to show quartz but

416

00:18:02,030 --> 00:17:59,670

it's also in the events that's gel

417

00:18:05,720 --> 00:18:02,040

contracted it's leann spits gel

418

00:18:08,720 --> 00:18:05,730

contracted down to the point the quantum

419

00:18:11,900 --> 00:18:08,730

minimum of measurement therefore when it

420

00:18:15,380 --> 00:18:11,910

hits this proton it compresses it like a

421

00:18:16,790 --> 00:18:15,390

boom being squashed it's its rate of

422

00:18:21,190 --> 00:18:16,800

speed gives a negative one third

423

00:18:23,690 --> 00:18:21,200

electron and that is two thirds electron

424

00:18:25,850 --> 00:18:23,700

vertically and two thirds electron

425

00:18:28,310 --> 00:18:25,860

charge horizontally and that is

426

00:18:30,050 --> 00:18:28,320

according to something called Pascal's

427

00:18:31,610 --> 00:18:30,060

principle which has been known for about

428

00:18:34,400 --> 00:18:31,620

three or four hundred years in physics

429

00:18:36,380 --> 00:18:34,410

the quantum electric charge is just a

430

00:18:38,100 --> 00:18:36,390

strain in the surrounding space due to

431

00:18:40,350 --> 00:18:38,110

an internal stress in real

432

00:18:42,360 --> 00:18:40,360

particles and a quark is just how that

433

00:18:44,750 --> 00:18:42,370

stresses redistributed along three

434

00:18:47,270 --> 00:18:44,760

dimensional space due to the collision

435

00:18:50,370 --> 00:18:47,280

within a particle according to a

436

00:18:52,169 --> 00:18:50,380

quantized Pascal's principle during a

437

00:18:54,780 --> 00:18:52,179

sufficiently energetic collision with

438

00:18:57,240 --> 00:18:54,790

another real extended particle and I

439

00:19:00,000 --> 00:18:57,250

have just destroyed the standard model

440

00:19:02,850 --> 00:19:00,010

physics because the corpse or the basis

441

00:19:06,960 --> 00:19:02,860

of the standard model of physics goodbye

442

00:19:08,820 --> 00:19:06,970

good riddance to particle physics what

443

00:19:11,250 --> 00:19:08,830

does this theory predict nothing is good

444

00:19:13,890 --> 00:19:11,260

without predictions well the existence

445

00:19:16,289 --> 00:19:13,900

dark matter haloes around all material

446

00:19:19,260 --> 00:19:16,299

objects not galaxies around all material

447

00:19:20,880 --> 00:19:19,270

objects galaxies stars and planets I'm

448

00:19:23,400 --> 00:19:20,890

willing to bet on them without math

449

00:19:28,680 --> 00:19:23,410

makes I'm going to bet that you take the

450

00:19:31,380 --> 00:19:28,690

Dark Matter components of the planets

451
00:19:33,030 --> 00:19:31,390
and our son and you will be able

452
00:19:35,039 --> 00:19:33,040
together they will give you the types

453
00:19:36,780 --> 00:19:35,049
boat law which has never been explained

454
00:19:39,000 --> 00:19:36,790
I haven't done that yet but someday I

455
00:19:40,950 --> 00:19:39,010
will the shades of dark matter haloes

456
00:19:44,070 --> 00:19:40,960
release fear around individual objects

457
00:19:46,440 --> 00:19:44,080
but a medical around galaxies that was

458
00:19:48,870 --> 00:19:46,450
shown just a couple of months ago the

459
00:19:51,990 --> 00:19:48,880
elliptical dark matter haloes around

460
00:19:53,490 --> 00:19:52,000
galaxies and additionally velocity due

461
00:19:57,360 --> 00:19:53,500
to that extra fact when you do this

462
00:19:59,070 --> 00:19:57,370
thing shot effect around the planet NASA

463
00:20:02,760 --> 00:19:59,080

just released that information a year

464

00:20:05,460 --> 00:20:02,770

ago the voyagers leaving the solar

465

00:20:08,820 --> 00:20:05,470

system or have an extra component speed

466

00:20:12,630 --> 00:20:08,830

why because they're falling down the

467

00:20:14,880 --> 00:20:12,640

dark matter our gradient and they're

468

00:20:18,840 --> 00:20:14,890

picking up dark energy is giving them

469

00:20:20,940 --> 00:20:18,850

the extra components of speed the

470

00:20:22,680 --> 00:20:20,950

existence of ha ultra high speed ionized

471

00:20:25,080 --> 00:20:22,690

particles cosmic rays the exiting

472

00:20:27,180 --> 00:20:25,090

galaxies done has been found ultra high

473

00:20:29,220 --> 00:20:27,190

speed cosmic rays they don't know how to

474

00:20:31,350 --> 00:20:29,230

explain it because cosmic rays come from

475

00:20:34,560 --> 00:20:31,360

charged particles excelled by magnetic

476
00:20:39,590 --> 00:20:34,570
fields that's normal cosmic days gives

477
00:20:43,260 --> 00:20:39,600
you go to of differentiated if you go to

478
00:20:45,340 --> 00:20:43,270
my model you have an extra acceleration

479
00:20:47,320 --> 00:20:45,350
of those particles

480
00:20:49,270 --> 00:20:47,330
to the mass not their electric charge

481
00:20:50,980 --> 00:20:49,280
but do the mass that gives us ultra

482
00:20:52,450 --> 00:20:50,990
high-speed cosmic particles which have

483
00:20:54,820 --> 00:20:52,460
been discovered they have no idea what

484
00:20:56,799 --> 00:20:54,830
they are an increasingly expansion of

485
00:20:58,930 --> 00:20:56,809
the universe as well the corresponding

486
00:21:00,940 --> 00:20:58,940
decrease in earlier times that can be

487
00:21:03,180 --> 00:21:00,950
checked the existence of a proton

488
00:21:05,950 --> 00:21:03,190

dominated universe as run away no

489

00:21:08,200 --> 00:21:05,960

antiprotons this theory explains a well

490

00:21:10,000 --> 00:21:08,210

if you calculate the value dark energy

491

00:21:12,580 --> 00:21:10,010

and any 3d volume of space from my

492

00:21:13,870 --> 00:21:12,590

simple geometric model yeah graphic

493

00:21:15,909 --> 00:21:13,880

diameters are slightly less than

494

00:21:17,230 --> 00:21:15,919

predicted by normal gravity theory these

495

00:21:20,230 --> 00:21:17,240

are all predictions are these already

496

00:21:25,539 --> 00:21:20,240

been shown or they can be tested so this

497

00:21:28,090 --> 00:21:25,549

is ultimately falsifiable their basic

498

00:21:29,590 --> 00:21:28,100

equations Einstein four-dimensional

499

00:21:32,140 --> 00:21:29,600

space-time five dimensional space-time

500

00:21:34,450 --> 00:21:32,150

where the gamma takes place of G the

501
00:21:36,549 --> 00:21:34,460
symmetric part of it gives the normal G

502
00:21:39,279 --> 00:21:36,559
movie which is Einsteins tensor and

503
00:21:41,500 --> 00:21:39,289
lambda G view which is the lambda CDM

504
00:21:44,140 --> 00:21:41,510
and if I go back this is original

505
00:21:46,270 --> 00:21:44,150
equation and for my MV substitute de

506
00:21:48,970 --> 00:21:46,280
broglie's Matter wave i have just

507
00:21:51,250 --> 00:21:48,980
quantized gravity welcome to the era of

508
00:21:54,520 --> 00:21:51,260
quantum gravity it is an accomplished

509
00:22:02,330 --> 00:21:54,530
fact without particles that should be

510
00:22:09,299 --> 00:22:07,049
thank you very much Jim anybody like to

511
00:22:17,430 --> 00:22:09,309
address any questions the gym I New York

512
00:22:23,359 --> 00:22:17,440
would please come on your York Dobyns

513
00:22:31,889 --> 00:22:27,499

it's hard to pick out just one item to

514

00:22:33,599 --> 00:22:31,899

me to come into an or question but about

515

00:22:35,359 --> 00:22:33,609

halfway through the paper or

516

00:22:40,379 --> 00:22:35,369

thereabouts-- you make an identification

517

00:22:44,310 --> 00:22:40,389

between the V cross γ term and the

518

00:22:46,049 --> 00:22:44,320

cosmological constant λ and there's

519

00:22:50,070 --> 00:22:46,059

a certain conceptual problem with that

520

00:22:52,080 --> 00:22:50,080

because λ is in fact a constant it

521

00:22:54,749 --> 00:22:52,090

has no transformation properties it

522

00:22:58,710 --> 00:22:54,759

looks the same to all observers whereas

523

00:23:00,599 --> 00:22:58,720

vector V cross vector γ is a vector

524

00:23:05,580 --> 00:23:00,609

that points in some particular direction

525

00:23:07,129 --> 00:23:05,590

and is dependent on the velocity V that

526

00:23:11,879 --> 00:23:07,139

goes into it their quantities of

527

00:23:13,440 --> 00:23:11,889

completely different types if you think

528

00:23:16,379 --> 00:23:13,450

three-dimensionally but if you think for

529

00:23:18,840 --> 00:23:16,389

dimensionally it's a scalar becomes the

530

00:23:24,509 --> 00:23:18,850

scalar upon that extrinsic curve which

531

00:23:27,060 --> 00:23:24,519

would be a constant now also you're

532

00:23:29,190 --> 00:23:27,070

thinking in terms of vectors and this is

533

00:23:31,889 --> 00:23:29,200

done in terms of quaternions though as

534

00:23:34,769 --> 00:23:31,899

originally done by Clifford in the 1870s

535

00:23:37,139 --> 00:23:34,779

and quaternions even in the 1870s were

536

00:23:39,149 --> 00:23:37,149

third dimensional quantities before they

537

00:23:45,720 --> 00:23:39,159

reduced by gives to three dimensional

538

00:23:56,970 --> 00:23:52,100

all right for your questions I escaped

539

00:24:01,920 --> 00:23:56,980

so they're York are you expecting more

540

00:24:03,420 --> 00:24:01,930

questions from work thank you Jim one