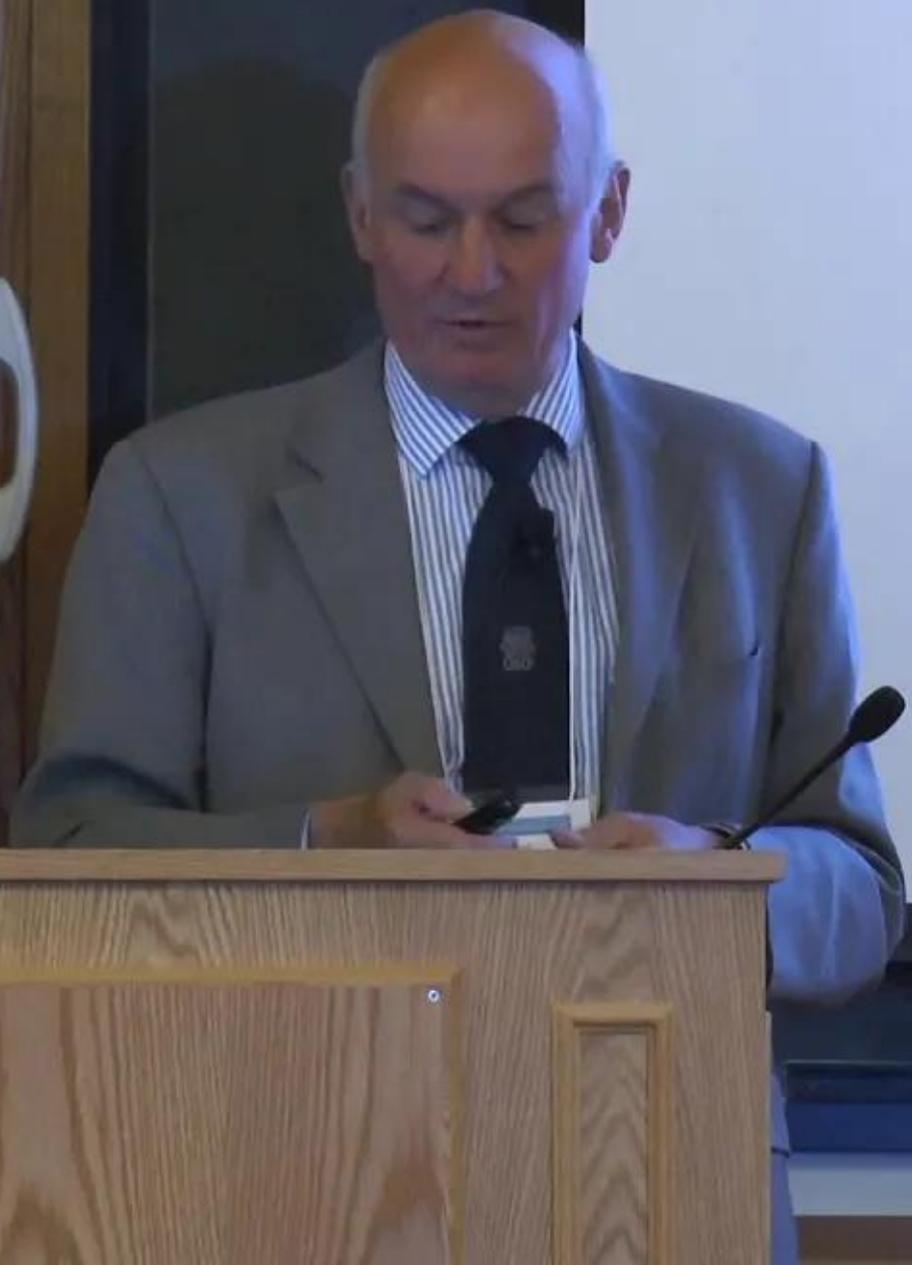


▶ 2025



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1
00:00:06,680 --> 00:00:04,070
thank you for having me here the bad

2
00:00:08,900 --> 00:00:06,690
news is I'm not Ana Flores she's not

3
00:00:12,680 --> 00:00:08,910
here she's my PhD student the good news

4
00:00:15,770 --> 00:00:12,690
is I'm giving the talk so I will be

5
00:00:18,740 --> 00:00:15,780
presenting work in progress doing that

6
00:00:20,840 --> 00:00:18,750
in two stages some theoretical thoughts

7
00:00:24,080 --> 00:00:20,850
which I can keep short and some data

8
00:00:26,839 --> 00:00:24,090
most of which are quite new so here we

9
00:00:29,029 --> 00:00:26,849
go we've already heard quite a few

10
00:00:31,820 --> 00:00:29,039
things about the current world view and

11
00:00:34,900 --> 00:00:31,830
the fact that it's actually predicated

12
00:00:37,520 --> 00:00:34,910
on some presuppositions which Collinwood

13
00:00:40,520 --> 00:00:37,530

who was actually the source for Thomas

14

00:00:44,740 --> 00:00:40,530

Kuhn just as an aside called

15

00:00:46,970 --> 00:00:44,750

absolute presuppositions meaning they

16

00:00:50,650 --> 00:00:46,980

determine what we think about and how we

17

00:00:53,600 --> 00:00:50,660

look at the world and most of them are

18

00:00:56,060 --> 00:00:53,610

looking at things in terms of local

19

00:00:59,029 --> 00:00:56,070

causes like mechanical causes of what we

20

00:01:02,930 --> 00:00:59,039

just heard up in key principle which

21

00:01:06,380 --> 00:01:02,940

means we are looking at things only in

22

00:01:10,789 --> 00:01:06,390

ways that we can analyze it causally

23

00:01:13,160 --> 00:01:10,799

mm-hmm also we go for analysis before

24

00:01:16,160 --> 00:01:13,170

synthesis and mostly we go for matter

25

00:01:19,100 --> 00:01:16,170

before consciousness which is something

26

00:01:21,560 --> 00:01:19,110

problematic I find and also individuals

27

00:01:23,539 --> 00:01:21,570

of particulars before holes so what I'm

28

00:01:25,880 --> 00:01:23,549

presenting to you is what I would call

29

00:01:27,830 --> 00:01:25,890

relative individuality or relative

30

00:01:31,929 --> 00:01:27,840

vorticity because I'm going to speak

31

00:01:34,520 --> 00:01:31,939

about more like holes that develop into

32

00:01:38,569 --> 00:01:34,530

individuals and out of individuals into

33

00:01:40,550 --> 00:01:38,579

holes again so mm-hmm I was always a

34

00:01:44,330 --> 00:01:40,560

little bit frustrated with that because

35

00:01:46,280 --> 00:01:44,340

I think when you look at the experience

36

00:01:48,530 --> 00:01:46,290

from parapsychology or complimentary

37

00:01:52,130 --> 00:01:48,540

medicine what I've been doing most of my

38

00:01:53,960 --> 00:01:52,140

career you see that you implicitly have

39

00:01:58,010 --> 00:01:53,970

to have another paradigm which is more

40

00:02:00,230 --> 00:01:58,020

holistic which is not causal in the

41

00:02:02,280 --> 00:02:00,240

strict sense but may be correlational II

42

00:02:07,650 --> 00:02:02,290

caused the former causality in

43

00:02:09,960 --> 00:02:07,660

in the sense of Aristotle and maybe more

44

00:02:12,710 --> 00:02:09,970

internal relations in instead of

45

00:02:15,990 --> 00:02:12,720

external relations we heard about those

46

00:02:17,910 --> 00:02:16,000

meaning fields that is something which

47

00:02:19,560 --> 00:02:17,920

in philosophical terms is more internal

48

00:02:22,320 --> 00:02:19,570

relations leiden it's had a model like

49

00:02:24,420 --> 00:02:22,330

that and that has been lost along the

50

00:02:26,730 --> 00:02:24,430

way of the history of philosophy and I

51
00:02:29,850 --> 00:02:26,740
think we should turn back to that that

52
00:02:32,850 --> 00:02:29,860
is therefore we were looking into

53
00:02:34,560 --> 00:02:32,860
developing a new paradigm and I did that

54
00:02:36,420 --> 00:02:34,570
a while ago together with physics

55
00:02:38,430 --> 00:02:36,430
colleagues from Freiburg and we

56
00:02:43,350 --> 00:02:38,440
published that as generalized quantum

57
00:02:45,870 --> 00:02:43,360
theory or E as a model that is

58
00:02:49,860 --> 00:02:45,880
generalizing quantum theory into a

59
00:02:52,590 --> 00:02:49,870
systemic area as it were so it's not

60
00:02:56,010 --> 00:02:52,600
physics it's using a physical theory to

61
00:02:58,380 --> 00:02:56,020
understand systems it is the form of

62
00:03:02,370 --> 00:02:58,390
theoretical framework of algebra quantum

63
00:03:04,260 --> 00:03:02,380

theory which is basically in its core

64

00:03:06,810 --> 00:03:04,270

designed to deal with incompatible

65

00:03:09,540 --> 00:03:06,820

operations that is the call everything

66

00:03:11,400 --> 00:03:09,550

else is physical addition which you need

67

00:03:13,320 --> 00:03:11,410

to calculate and that sort of thing

68

00:03:16,680 --> 00:03:13,330

we leave that out and look at the core

69

00:03:18,990 --> 00:03:16,690

and we discover if you do that the model

70

00:03:20,940 --> 00:03:19,000

predicts non-local correlations and

71

00:03:23,300 --> 00:03:20,950

shampooles Kiro's and like correlations

72

00:03:26,670 --> 00:03:23,310

but not physical one but systemic ones

73

00:03:29,039 --> 00:03:26,680

and meaning that is in all types of

74

00:03:31,470 --> 00:03:29,049

systems no matter what they are made of

75

00:03:33,840 --> 00:03:31,480

they may be made out of chocolate but if

76

00:03:36,810 --> 00:03:33,850

they are in in in the in in the right

77

00:03:39,990 --> 00:03:36,820

frame you would see such correlations

78

00:03:44,870 --> 00:03:40,000

and that is what it would look like so

79

00:03:48,509 --> 00:03:44,880

if you if you think about a system that

80

00:03:51,300 --> 00:03:48,519

comprises some elements and you have

81

00:03:54,509 --> 00:03:51,310

descriptions that are incompatible

82

00:03:56,640 --> 00:03:54,519

between the whole of the system and the

83

00:03:58,560 --> 00:03:56,650

individuals the model would predict

84

00:04:02,820 --> 00:03:58,570

non-local correlations between these

85

00:04:09,720 --> 00:04:02,830

elements and the very basic idea is we

86

00:04:12,349 --> 00:04:09,730

always have holes connectedness let's

87

00:04:15,920 --> 00:04:12,359

say and we have individuals or

88

00:04:18,699 --> 00:04:15,930

separateness those are the most abstract

89

00:04:23,170 --> 00:04:18,709

concepts you can conceive of and

90

00:04:25,850 --> 00:04:23,180

connectedness and separateness are

91

00:04:27,800 --> 00:04:25,860

concepts are that are incompatible and

92

00:04:29,870 --> 00:04:27,810

if you have them United in one system

93

00:04:31,790 --> 00:04:29,880

then the prediction is that would be

94

00:04:33,650 --> 00:04:31,800

non-local correlations that's the basic

95

00:04:37,760 --> 00:04:33,660

theoretical framework from which we

96

00:04:40,700 --> 00:04:37,770

start now the idea is or the other

97

00:04:44,540 --> 00:04:40,710

problem is can you actually test that

98

00:04:48,800 --> 00:04:44,550

and the problem is correlations of that

99

00:04:51,230 --> 00:04:48,810

quantum type they cannot be used for EM

100

00:04:54,200 --> 00:04:51,240

for signal transmission that is why we

101
00:04:56,240 --> 00:04:54,210
have introduced the theorem in our model

102
00:04:59,330 --> 00:04:56,250
which we call the no signal transfer

103
00:05:02,020 --> 00:04:59,340
theorem and it actually states you

104
00:05:04,760 --> 00:05:02,030
cannot use those correlations to

105
00:05:07,100 --> 00:05:04,770
transmit causal signals you can use them

106
00:05:08,630 --> 00:05:07,110
but not causal sickness because if you

107
00:05:11,270 --> 00:05:08,640
do that you see that there's different

108
00:05:12,830 --> 00:05:11,280
types of things that bill has seen you

109
00:05:14,900 --> 00:05:12,840
have mice that are healed although they

110
00:05:16,550 --> 00:05:14,910
are not the target of the healing or you

111
00:05:18,650 --> 00:05:16,560
have the wrong mice healed while the

112
00:05:20,180 --> 00:05:18,660
other ones are not healed that type of

113
00:05:23,020 --> 00:05:20,190

thing and that's relevant for all

114

00:05:25,460 --> 00:05:23,030

replication now in quantum theory proper

115

00:05:27,170 --> 00:05:25,470

entanglement correlations are not tested

116

00:05:31,010 --> 00:05:27,180

by experiments they are tested by

117

00:05:32,860 --> 00:05:31,020

observations whose result you test

118

00:05:35,480 --> 00:05:32,870

against the theoretical prediction in

119

00:05:37,250 --> 00:05:35,490

parapsychology and in healing and other

120

00:05:38,750 --> 00:05:37,260

things we don't have that theoretical

121

00:05:41,060 --> 00:05:38,760

prediction we have to construct

122

00:05:44,720 --> 00:05:41,070

experiments and that is actually a way

123

00:05:46,850 --> 00:05:44,730

of coding signal so we used a new

124

00:05:49,010 --> 00:05:46,860

experiment we call it the matrix

125

00:05:50,690 --> 00:05:49,020

experiment that was developed by writer

126
00:05:54,200 --> 00:05:50,700
for looker too many years ago and we

127
00:05:58,100 --> 00:05:54,210
hope that this does not make signal

128
00:06:00,470 --> 00:05:58,110
coding possible so there were a couple

129
00:06:02,570 --> 00:06:00,480
of positive replications previously so

130
00:06:05,270 --> 00:06:02,580
we used that we nearly designed the

131
00:06:09,110 --> 00:06:05,280
experiment we newly rep constructed all

132
00:06:11,030 --> 00:06:09,120
the hardware and new protocol and the

133
00:06:13,910 --> 00:06:11,040
principal setup is that of a micro PA

134
00:06:17,090 --> 00:06:13,920
experiment a micro PK experiment where

135
00:06:18,800 --> 00:06:17,100
you have a sinner Dyer driving a display

136
00:06:21,150 --> 00:06:18,810
and someone sitting in front of it

137
00:06:23,920 --> 00:06:21,160
instructed to

138
00:06:26,380 --> 00:06:23,930

intentionally intentionally influencer

139

00:06:28,690 --> 00:06:26,390

display the important thing about that

140

00:06:31,600 --> 00:06:28,700

experiment according to my turf and

141

00:06:34,660 --> 00:06:31,610

Lookadoo is that the random events are

142

00:06:37,470 --> 00:06:34,670

sampled by Aman Markov chain and not a

143

00:06:40,720 --> 00:06:37,480

normal X or a because that gives the

144

00:06:42,580 --> 00:06:40,730

appearance of the system of more natural

145

00:06:45,880 --> 00:06:42,590

appearance it's a slower process of

146

00:06:48,190 --> 00:06:45,890

development and this is the display

147

00:06:51,040 --> 00:06:48,200

which we use a simple fractal and here

148

00:06:53,590 --> 00:06:51,050

you see for instance that little thing

149

00:06:55,390 --> 00:06:53,600

here which would instruct the

150

00:06:57,940 --> 00:06:55,400

participant to keep it stable so this

151
00:07:00,790 --> 00:06:57,950
would grow out of out or it would shrink

152
00:07:03,190 --> 00:07:00,800
and the experimental instruction would

153
00:07:05,350 --> 00:07:03,200
be keep it stable or point to the left

154
00:07:08,830 --> 00:07:05,360
trinket or to the right grow it those

155
00:07:11,050 --> 00:07:08,840
were the conditions and the standard if

156
00:07:13,660 --> 00:07:11,060
the difference to standard experiment is

157
00:07:15,550 --> 00:07:13,670
we are not targeting the random

158
00:07:17,680 --> 00:07:15,560
deviation directly that's the big

159
00:07:20,160 --> 00:07:17,690
difference but we extract variables

160
00:07:22,600 --> 00:07:20,170
actually five physical ones and five

161
00:07:26,590 --> 00:07:22,610
psychological ones we have three runs

162
00:07:28,960 --> 00:07:26,600
per instruction deviate right left

163
00:07:31,660 --> 00:07:28,970

keep centered and we repeat that so we

164

00:07:34,000 --> 00:07:31,670

have nine runs forming a matrix of nine

165

00:07:36,580 --> 00:07:34,010

times five physical and nine times

166

00:07:39,460 --> 00:07:36,590

psychological variables which sets up a

167

00:07:41,800 --> 00:07:39,470

huge matrix of 45 physical and 45

168

00:07:44,250 --> 00:07:41,810

psychological variables which gives us a

169

00:07:47,110 --> 00:07:44,260

pot of potential matrix of potentially

170

00:07:49,270 --> 00:07:47,120

2025 correlations okay that's the

171

00:07:52,600 --> 00:07:49,280

difference to a standard PK experiment

172

00:07:54,490 --> 00:07:52,610

we are not targeting the deviation from

173

00:07:56,410 --> 00:07:54,500

randomness we are targeting the

174

00:07:58,660 --> 00:07:56,420

correlation matrix between those

175

00:08:01,810 --> 00:07:58,670

variables and these are the variables so

176
00:08:04,540 --> 00:08:01,820
they're actually quite simple we use the

177
00:08:06,160 --> 00:08:04,550
this deviation from randomness as one

178
00:08:08,860 --> 00:08:06,170
variable but then we also have the

179
00:08:10,900 --> 00:08:08,870
maximum deviation of deviation of the

180
00:08:12,460 --> 00:08:10,910
process from the Markov chain behavior

181
00:08:14,080 --> 00:08:12,470
and then the average voltage and the

182
00:08:16,060 --> 00:08:14,090
variance of the voltage at the RIC

183
00:08:18,490 --> 00:08:16,070
output number seven in that case we have

184
00:08:20,800 --> 00:08:18,500
certain outputs and that psychological

185
00:08:23,380 --> 00:08:20,810
variables we use the number of key

186
00:08:25,690 --> 00:08:23,390
presses because the the participant has

187
00:08:27,820 --> 00:08:25,700
to progress the experiment by pressing

188
00:08:29,230 --> 00:08:27,830

Shift keys and he or she can use either

189

00:08:31,870 --> 00:08:29,240

left shift right

190

00:08:34,029 --> 00:08:31,880

okay left shift key or both when both

191

00:08:36,969 --> 00:08:34,039

oppressed experiment progresses and

192

00:08:38,589 --> 00:08:36,979

every press of the shift key progresses

193

00:08:40,719 --> 00:08:38,599

the experiment so this is also a measure

194

00:08:42,399 --> 00:08:40,729

of the speed of the experiment okay and

195

00:08:44,320 --> 00:08:42,409

so we have the number of these key

196

00:08:46,180 --> 00:08:44,330

presses and the average time between the

197

00:08:47,860 --> 00:08:46,190

key presses and the variance the

198

00:08:50,050 --> 00:08:47,870

steadiness of the experiment those are

199

00:08:53,139 --> 00:08:50,060

the psychological variables which we use

200

00:08:55,030 --> 00:08:53,149

and then we target a number of

201
00:08:57,880 --> 00:08:55,040
significant correlations between those

202
00:09:01,120 --> 00:08:57,890
when we set the significance level at

203
00:09:03,070 --> 00:09:01,130
Point a 1 this is purely arbitrary we

204
00:09:05,949 --> 00:09:03,080
could use any levels of the previous

205
00:09:07,560 --> 00:09:05,959
experiments at Panda and we use the

206
00:09:12,220 --> 00:09:07,570
other significance levels for

207
00:09:14,079 --> 00:09:12,230
sensitivity sensitivity analysis so

208
00:09:16,090 --> 00:09:14,089
there are two types of controls one is

209
00:09:18,210 --> 00:09:16,100
John's expectation because if you run so

210
00:09:20,680 --> 00:09:18,220
many correlations you will expect

211
00:09:23,680 --> 00:09:20,690
correlations by chance right so this is

212
00:09:25,990 --> 00:09:23,690
one control and then we have control

213
00:09:28,060 --> 00:09:26,000

experiment where after each real

214

00:09:29,829 --> 00:09:28,070

experiment we have an empty run by the

215

00:09:31,930 --> 00:09:29,839

system nobody is sitting in front of it

216

00:09:35,519 --> 00:09:31,940

it's just started and the operator goes

217

00:09:37,780 --> 00:09:35,529

away and we use the previous

218

00:09:40,269 --> 00:09:37,790

psychological variables and match it

219

00:09:42,699 --> 00:09:40,279

with that all right and then we have a

220

00:09:47,019 --> 00:09:42,709

couple of other safeguards just to make

221

00:09:48,490 --> 00:09:47,029

the experiment work well so this is a

222

00:09:50,440 --> 00:09:48,500

summary of what the experiment looks

223

00:09:52,449 --> 00:09:50,450

like you have a participant sitting

224

00:09:55,720 --> 00:09:52,459

before the reg you have that displayed

225

00:09:58,660 --> 00:09:55,730

with the instructions and then you have

226
00:10:00,790 --> 00:09:58,670
these variables the experimenter press

227
00:10:03,220 --> 00:10:00,800
oppresses to keep the participant

228
00:10:06,220 --> 00:10:03,230
presses the shift keys and that

229
00:10:08,170 --> 00:10:06,230
progresses the experiment yields of

230
00:10:11,440 --> 00:10:08,180
psychological variables and then we get

231
00:10:13,720 --> 00:10:11,450
the correlations the first study which

232
00:10:17,319 --> 00:10:13,730
was done by Majella around myself and

233
00:10:20,290 --> 00:10:17,329
Vitaphone Lookadoo was an experiment

234
00:10:24,069 --> 00:10:20,300
with 503 single experiments contributed

235
00:10:26,730 --> 00:10:24,079
by 243 participants mostly conferences

236
00:10:29,740 --> 00:10:26,740
and seminars and stuff like that and

237
00:10:32,110 --> 00:10:29,750
then we have two replication studies and

238
00:10:34,780 --> 00:10:32,120

these are Una's data they are very fresh

239

00:10:37,810 --> 00:10:34,790

and they are only partially evaluated so

240

00:10:41,900 --> 00:10:37,820

far in Edinburgh with friends and

241

00:10:44,750 --> 00:10:41,910

colleagues the statistical evaluation is

242

00:10:47,300 --> 00:10:44,760

a matter of debate we use originally the

243

00:10:49,520 --> 00:10:47,310

old evaluation which was constructed by

244

00:10:52,450 --> 00:10:49,530

writer from Lucca to after input from a

245

00:10:56,030 --> 00:10:52,460

referee and this is actually a standard

246

00:10:58,340 --> 00:10:56,040

standard statistics where you have the

247

00:11:01,160 --> 00:10:58,350

deviation between those number of

248

00:11:04,390 --> 00:11:01,170

significant correlations in experimental

249

00:11:08,470 --> 00:11:04,400

condition - the in the control condition

250

00:11:10,550 --> 00:11:08,480

standardized and should theoretically

251
00:11:12,890 --> 00:11:10,560
theoretically give you a set score but

252
00:11:16,190 --> 00:11:12,900
only if you have independent data and

253
00:11:18,650 --> 00:11:16,200
that we don't have that's the problem

254
00:11:20,930 --> 00:11:18,660
so we are trying to solve that problem

255
00:11:23,120 --> 00:11:20,940
by a new evaluation which we cooked up

256
00:11:26,600 --> 00:11:23,130
after a consensus conference last

257
00:11:28,760 --> 00:11:26,610
October in Capri where we said we would

258
00:11:32,900 --> 00:11:28,770
probably have to use a Monte Carlo

259
00:11:34,960 --> 00:11:32,910
analysis with 10000 randomly populated

260
00:11:36,950 --> 00:11:34,970
matrices and find our own district

261
00:11:39,620 --> 00:11:36,960
distribution we are in the process of

262
00:11:41,240 --> 00:11:39,630
evaluating those data now the results of

263
00:11:43,880 --> 00:11:41,250

the study one which is our original

264

00:11:45,770 --> 00:11:43,890

study this is what it looks like so this

265

00:11:49,040 --> 00:11:45,780

is the the correlation matrix so you

266

00:11:51,170 --> 00:11:49,050

have always five variables down here and

267

00:11:53,300 --> 00:11:51,180

then again and again and again and you

268

00:11:55,610 --> 00:11:53,310

have here the physical variables and

269

00:11:57,290 --> 00:11:55,620

here the psychological variables and the

270

00:11:59,210 --> 00:11:57,300

false color coding gives you the

271

00:12:01,970 --> 00:11:59,220

significance level which is out here

272

00:12:05,630 --> 00:12:01,980

right so this is your mental matrix and

273

00:12:06,560 --> 00:12:05,640

this is the control matrix let's just

274

00:12:09,500 --> 00:12:06,570

switch back again

275

00:12:11,920 --> 00:12:09,510

experimental matrix control matrix I

276

00:12:14,120 --> 00:12:11,930

think you can see quite clearly that the

277

00:12:16,900 --> 00:12:14,130

experimental matrix has many more

278

00:12:19,460 --> 00:12:16,910

significant correlations in it than the

279

00:12:21,800 --> 00:12:19,470

control matrix and if you do the

280

00:12:24,500 --> 00:12:21,810

standard analysis you'll also see that

281

00:12:25,760 --> 00:12:24,510

there is quite a difference all right so

282

00:12:28,100 --> 00:12:25,770

here you have the number of the

283

00:12:30,050 --> 00:12:28,110

experimental correlations the expected

284

00:12:32,240 --> 00:12:30,060

correlation is the green one and the

285

00:12:34,430 --> 00:12:32,250

control once they confirm comparatively

286

00:12:37,640 --> 00:12:34,440

well and no matter what significant

287

00:12:39,590 --> 00:12:37,650

threshold you use it looks the same and

288

00:12:42,280 --> 00:12:39,600

if you do the standard analysis what you

289

00:12:45,260 --> 00:12:42,290

see you get about five Sigma difference

290

00:12:47,660 --> 00:12:45,270

between those correlation matrices it

291

00:12:49,880 --> 00:12:47,670

and it doesn't matter whether you use

292

00:12:51,800 --> 00:12:49,890

this or this or this significance level

293

00:12:54,660 --> 00:12:51,810

as a threshold

294

00:12:56,790 --> 00:12:54,670

now the Monte Carlo analysis using that

295

00:13:02,930 --> 00:12:56,800

formula gives a more conservative

296

00:13:05,850 --> 00:13:02,940

estimate which is a but you can see here

297

00:13:10,400 --> 00:13:05,860

so this is the significant threshold up

298

00:13:14,189 --> 00:13:10,410

here this is the standard set score and

299

00:13:16,470 --> 00:13:14,199

this is the simulated one this is the

300

00:13:21,030 --> 00:13:16,480

the p-value and the simulated p-value

301
00:13:22,650 --> 00:13:21,040
and you can see it's significant up to

302
00:13:24,420 --> 00:13:22,660
this point the yellow ones are all

303
00:13:27,360 --> 00:13:24,430
significant the red ones are not

304
00:13:30,329 --> 00:13:27,370
significant and this down here is the

305
00:13:32,460 --> 00:13:30,339
forward-looking correlation for a part

306
00:13:34,530 --> 00:13:32,470
of the correlation matrix and depending

307
00:13:37,439 --> 00:13:34,540
on what type of correlation matrices you

308
00:13:39,749 --> 00:13:37,449
use this is the full matrix this is only

309
00:13:41,879 --> 00:13:39,759
partial matrix which simulates previous

310
00:13:44,220 --> 00:13:41,889
experiments and this as well you get

311
00:13:47,970 --> 00:13:44,230
different type of significance but

312
00:13:51,389 --> 00:13:47,980
actually it's more conservative but it

313
00:13:54,629 --> 00:13:51,399

is still significant now this is the

314

00:13:56,910 --> 00:13:54,639

census sensitivity analysis this results

315

00:13:59,550 --> 00:13:56,920

a comparatively stable and they are also

316

00:14:02,370 --> 00:13:59,560

significant with the new analysis but a

317

00:14:04,350 --> 00:14:02,380

little bit more conservative now this is

318

00:14:08,400 --> 00:14:04,360

the replication study two and number

319

00:14:13,829 --> 00:14:08,410

three by Anna this is a summary result

320

00:14:17,519 --> 00:14:13,839

only using the standard analysis of the

321

00:14:22,829 --> 00:14:17,529

set score difference here is the P of

322

00:14:25,199 --> 00:14:22,839

the 0.1 correlation 0 0.5 significance

323

00:14:29,579 --> 00:14:25,209

and so forth and this is the set score

324

00:14:33,420 --> 00:14:29,589

right so she could she called very very

325

00:14:35,280 --> 00:14:33,430

thick set scores this is the first

326

00:14:36,710 --> 00:14:35,290

experiment and this is the second

327

00:14:40,139 --> 00:14:36,720

experiment

328

00:14:42,900 --> 00:14:40,149

these are comparatively large and what

329

00:14:45,929 --> 00:14:42,910

you see here is only partial matrix

330

00:14:47,939 --> 00:14:45,939

that's the the upper diagonal that codes

331

00:14:49,980 --> 00:14:47,949

for the forward-looking so that in the

332

00:14:52,019 --> 00:14:49,990

future correlations which should be

333

00:14:54,590 --> 00:14:52,029

completely free of any causal

334

00:14:57,749 --> 00:14:54,600

correlations and also here she gets

335

00:15:00,269 --> 00:14:57,759

comparatively strong in the indications

336

00:15:01,449 --> 00:15:00,279

for significant results we do not have

337

00:15:03,879 --> 00:15:01,459

Monte Carlo si

338

00:15:05,379 --> 00:15:03,889

related statistical analysis for those

339

00:15:08,859 --> 00:15:05,389

data yet because that's still in the

340

00:15:10,809 --> 00:15:08,869

making and this is the what the second

341

00:15:12,900 --> 00:15:10,819

experiment looks like the first I don't

342

00:15:15,759 --> 00:15:12,910

have that's the second experiment

343

00:15:20,829 --> 00:15:15,769

experimental data and this is the

344

00:15:24,759 --> 00:15:20,839

control data for mental data control

345

00:15:26,710 --> 00:15:24,769

data so it looks as if that thing is

346

00:15:30,340 --> 00:15:26,720

actually replicable I'm quite surprised

347

00:15:32,169 --> 00:15:30,350

myself I'm not sure whether the Monte

348

00:15:34,059 --> 00:15:32,179

Carlo analysis will be stable but I

349

00:15:37,150 --> 00:15:34,069

think it will because the set scores are

350

00:15:40,259 --> 00:15:37,160

comparatively high so the summary is I

351
00:15:44,049 --> 00:15:40,269
hope that we have found a robust

352
00:15:45,790 --> 00:15:44,059
experimental paradigm where we get more

353
00:15:48,100 --> 00:15:45,800
significant correlations under the

354
00:15:52,109 --> 00:15:48,110
experimental condition compared to the

355
00:15:54,879 --> 00:15:52,119
control condition we will have to use

356
00:15:57,840 --> 00:15:54,889
more conservative analysis which we are

357
00:16:01,210 --> 00:15:57,850
still in the process of working out and

358
00:16:02,949 --> 00:16:01,220
there is a few other data by heart would

359
00:16:05,410 --> 00:16:02,959
grow to who is here and just published

360
00:16:07,629 --> 00:16:05,420
that and I want to point that out there

361
00:16:10,539 --> 00:16:07,639
is a post hoc analysis form and this is

362
00:16:12,009 --> 00:16:10,549
a Monte Carlo simulation right if I'm if

363
00:16:14,919 --> 00:16:12,019

I understand that correctly what you

364

00:16:17,230 --> 00:16:14,929

have here is experimental and the

365

00:16:18,699 --> 00:16:17,240

control data and you have something

366

00:16:22,499 --> 00:16:18,709

sticking out here which is quite

367

00:16:27,759 --> 00:16:22,509

interesting and the difference

368

00:16:29,379 --> 00:16:27,769

calculated post hoc is 0.01 and the

369

00:16:31,470 --> 00:16:29,389

interesting thing about that experiment

370

00:16:34,499 --> 00:16:31,480

I find is that he used different

371

00:16:36,369 --> 00:16:34,509

psychological variables so these are

372

00:16:40,030 --> 00:16:36,379

psychological variables of the

373

00:16:42,069 --> 00:16:40,040

participants coming from scales which we

374

00:16:45,100 --> 00:16:42,079

didn't use and so there is an

375

00:16:48,400 --> 00:16:45,110

interesting future unfinished there is

376

00:16:52,629 --> 00:16:48,410

an interesting future perspective of

377

00:16:54,039 --> 00:16:52,639

using different variables so we are in

378

00:16:56,799 --> 00:16:54,049

the process of setting up a large

379

00:16:58,840 --> 00:16:56,809

consortium replication and whoever wants

380

00:16:59,170 --> 00:16:58,850

to join us as welcome to do that we will

381

00:17:01,290 --> 00:16:59,180

have

382

00:17:02,410 --> 00:17:01,300

to find independent funding for that yet

383

00:17:06,250 --> 00:17:02,420

mmm-hmm

384

00:17:07,600 --> 00:17:06,260

and I think a pinch of skepticism is

385

00:17:09,610 --> 00:17:07,610

warranted we don't know whether that

386

00:17:13,300 --> 00:17:09,620

really holds water because we need more

387

00:17:16,530 --> 00:17:13,310

applications on that and it may be

388

00:17:18,820 --> 00:17:16,540

necessary to actually build some some

389

00:17:20,740 --> 00:17:18,830

insecurity or some freedom of movement

390

00:17:23,760 --> 00:17:20,750

into the system in order to make it

391

00:17:26,320 --> 00:17:23,770

happen but that might be possible so

392

00:17:29,200 --> 00:17:26,330

funded by the Beale foundation by the by

393

00:17:31,060 --> 00:17:29,210

the way and if you want more information

394

00:17:40,570 --> 00:17:31,070

write me an email thank you for your

395

00:17:43,210 --> 00:17:40,580

attention I think we are a slight

396

00:17:45,310 --> 00:17:43,220

weakness I see in the arguments here and

397

00:17:47,230 --> 00:17:45,320

this is partly because I have never

398

00:17:51,490 --> 00:17:47,240

believed Vaughn Lucca who's non

399

00:17:57,010 --> 00:17:51,500

signalling theorem is that the the

400

00:18:02,170 --> 00:17:57,020

experiment you have set up will produce

401
00:18:04,120 --> 00:18:02,180
results whether there is conventionally

402
00:18:07,330 --> 00:18:04,130
interpreted sigh that could be used for

403
00:18:12,460 --> 00:18:07,340
signaling or if on lucca news Don

404
00:18:15,100 --> 00:18:12,470
signaling sie is available it is the

405
00:18:17,650 --> 00:18:15,110
only form available so the fact that

406
00:18:20,200 --> 00:18:17,660
you're getting positive results is quite

407
00:18:23,230 --> 00:18:20,210
encouraging and we can hope that it will

408
00:18:27,210 --> 00:18:23,240
prove to be replicable but at the moment

409
00:18:30,730 --> 00:18:27,220
it does not seem to make a very strong

410
00:18:32,620 --> 00:18:30,740
justification of the idea that a a no

411
00:18:41,140 --> 00:18:32,630
signalling theorem applies to sign

412
00:18:43,540 --> 00:18:41,150
phenomena well because of various

413
00:18:46,270 --> 00:18:43,550

reasons I think we have enough data in

414

00:18:49,420 --> 00:18:46,280

the parapsychology database and we have

415

00:18:51,460 --> 00:18:49,430

enough data in various complementary

416

00:18:53,440 --> 00:18:51,470

medicine databases to see that it's

417

00:18:56,410 --> 00:18:53,450

actually happening all the time that if

418

00:18:59,200 --> 00:18:56,420

you replicate things they go away they

419

00:19:01,360 --> 00:18:59,210

change channels you see buildings and

420

00:19:05,470 --> 00:19:01,370

smiles they do these they have these

421

00:19:07,450 --> 00:19:05,480

strange habit of shifting effects of the

422

00:19:08,320 --> 00:19:07,460

control group that is a strong argument

423

00:19:10,149 --> 00:19:08,330

and I think

424

00:19:13,480 --> 00:19:10,159

you look into the correlational data

425

00:19:16,330 --> 00:19:13,490

what you would expect if cyber a signal

426
00:19:19,779 --> 00:19:16,340
you would expect the certain cells to be

427
00:19:21,669 --> 00:19:19,789
always populated in the same way and

428
00:19:23,889 --> 00:19:21,679
that is exactly what you not see you see

429
00:19:25,930 --> 00:19:23,899
the effect switching channels to

430
00:19:27,730 --> 00:19:25,940
different correlational patterns and

431
00:19:31,509 --> 00:19:27,740
that is exactly what that experiment was

432
00:19:33,549 --> 00:19:31,519
designed to capture when those in the

433
00:19:37,000 --> 00:19:33,559
experimental group sat at the computer

434
00:19:45,940 --> 00:19:37,010
what were they doing exactly they were

435
00:19:48,669 --> 00:19:45,950
trying to influence this fractal which

436
00:19:51,039 --> 00:19:48,679
you have to imagine as being dynamic it

437
00:19:52,810 --> 00:19:51,049
comes out of out of the thing and grows

438
00:19:54,820 --> 00:19:52,820

and it shrinks and it grows and it

439

00:19:56,350 --> 00:19:54,830

shrinks dependent on the sampling of the

440

00:20:03,330 --> 00:19:56,360

random process and they got an

441

00:20:06,490 --> 00:20:03,340

instruction with that little thing here

442

00:20:08,500 --> 00:20:06,500

if that was an arrow pointing right the

443

00:20:10,659 --> 00:20:08,510

instruction was grow it when the

444

00:20:12,430 --> 00:20:10,669

instruction was pointing left the

445

00:20:14,440 --> 00:20:12,440

instruction was shrinking and if it was

446

00:20:17,830 --> 00:20:14,450

like that it was keep it stable so it

447

00:20:20,080 --> 00:20:17,840

was an intentional instruction to act on

448

00:20:22,149 --> 00:20:20,090

the behavior of that fractal driven

449

00:20:25,480 --> 00:20:22,159

driven by a random number process which

450

00:20:26,680 --> 00:20:25,490

is in fact classically impossible maybe

451

00:20:28,060 --> 00:20:26,690

I missed it but is there something

452

00:20:30,340 --> 00:20:28,070

special about the imagery that you were

453

00:20:32,350 --> 00:20:30,350

using was that oh we're just we were

454

00:20:34,299 --> 00:20:32,360

just using the original one which wieder

455

00:20:35,980 --> 00:20:34,309

used for his previous experiments we

456

00:20:37,690 --> 00:20:35,990

were just using the very same display

457

00:20:40,600 --> 00:20:37,700

and the fact that it was colorful and

458

00:20:42,370 --> 00:20:40,610

yeah just well the fact it's colorful

459

00:20:44,970 --> 00:20:42,380

and it's playful is something that gets

460

00:20:47,490 --> 00:20:44,980

people involved and the idea about the

461

00:20:50,409 --> 00:20:47,500

theoretical model is you have to close

462

00:20:51,639 --> 00:20:50,419

the system somehow and you do that by

463

00:20:53,139 --> 00:20:51,649

getting people involved in the

464

00:20:55,570 --> 00:20:53,149

experiment and by the experimental

465

00:20:57,100 --> 00:20:55,580

instructions and that helps to get

466

00:21:03,070 --> 00:20:57,110

people involved because it looks nice

467

00:21:03,900 --> 00:21:03,080

yeah okay thank you let's thank our