

**SSE COMMUNITY
DISCUSSION HOUR**

ASTROLOGY

AS A SUBJECT OF SCIENCE



**SOCIETY
FOR
SCIENTIFIC
EXPLORATION**



1
00:00:10,549 --> 00:00:07,269
the foundation for the assignment of

2
00:00:12,549 --> 00:00:10,559
astrology to the field of animalistics

3
00:00:15,509 --> 00:00:12,559
is the assertion

4
00:00:17,590 --> 00:00:15,519
that astrology functions on a basis not

5
00:00:19,830 --> 00:00:17,600
yet fully understood

6
00:00:22,470 --> 00:00:19,840
a correlation between lawful

7
00:00:25,990 --> 00:00:22,480
astronomical circumstances

8
00:00:28,070 --> 00:00:26,000
dynamics movements and earthly events is

9
00:00:31,189 --> 00:00:28,080
assumed

10
00:00:34,069 --> 00:00:31,199
one can call this the above below

11
00:00:34,079 --> 00:00:37,190
or abt

12
00:00:41,910 --> 00:00:40,150
the regularity and calculability of

13
00:00:44,310 --> 00:00:41,920

astronomic

14

00:00:47,990 --> 00:00:44,320

dynamics including the basic

15

00:00:51,510 --> 00:00:48,000

astrological meaning attributed to them

16

00:00:55,350 --> 00:00:54,150

a central prerequisite of astrological

17

00:00:57,990 --> 00:00:55,360

practice

18

00:01:00,389 --> 00:00:58,000

if one takes the few stable finding of

19

00:01:01,830 --> 00:01:00,399

research on astrological correlations

20

00:01:05,189 --> 00:01:01,840

seriously

21

00:01:09,429 --> 00:01:05,199

the assumed above below connection

22

00:01:11,910 --> 00:01:09,439

represents a scientific anomaly

23

00:01:14,870 --> 00:01:11,920

usually this connection is experienced

24

00:01:17,350 --> 00:01:14,880

as evident in practical applications

25

00:01:25,190 --> 00:01:17,360

such as the interpretation of a birth

26

00:01:30,069 --> 00:01:27,030

in this process

27

00:01:32,870 --> 00:01:30,079

of experiences subjective evidence

28

00:01:35,109 --> 00:01:32,880

concerning the role of reliability and

29

00:01:37,670 --> 00:01:35,119

truth of astrality

30

00:01:40,230 --> 00:01:37,680

another level comes into play

31

00:01:42,230 --> 00:01:40,240

that of the interpreter and the receiver

32

00:01:44,469 --> 00:01:42,240

of the interpretation

33

00:01:46,710 --> 00:01:44,479

it is no longer a matter of the

34

00:01:48,230 --> 00:01:46,720

theoretically modeled above below

35

00:01:51,350 --> 00:01:48,240

connection

36

00:01:54,069 --> 00:01:51,360

but of a complex often interpersonal

37

00:01:55,990 --> 00:01:54,079

interaction

38

00:01:58,950 --> 00:01:56,000

that is

39

00:02:03,030 --> 00:01:58,960

susceptible to influences of the most

40

00:02:08,550 --> 00:02:06,230

regarding conventional explanations

41

00:02:09,830 --> 00:02:08,560

the success of an astrologer can be

42

00:02:12,229 --> 00:02:09,840

based on

43

00:02:13,589 --> 00:02:12,239

cognitive failures such as the barnum

44

00:02:16,150 --> 00:02:13,599

effect

45

00:02:20,150 --> 00:02:16,160

intuition cold reading

46

00:02:22,550 --> 00:02:20,160

or other means of gathering information

47

00:02:25,430 --> 00:02:22,560

from an anomalistic point of view

48

00:02:27,750 --> 00:02:25,440

success is mainly based on

49

00:02:30,710 --> 00:02:27,760

the interpretation of astrological

50

00:02:32,229 --> 00:02:30,720

factors due to the above below

51

00:02:33,509 --> 00:02:32,239

connection

52

00:02:36,070 --> 00:02:33,519

or

53

00:02:38,390 --> 00:02:36,080

solubility of the astrologer

54

00:02:41,509 --> 00:02:38,400

and in some cases

55

00:02:44,710 --> 00:02:41,519

synchronistic events

56

00:02:47,030 --> 00:02:44,720

therefore an important distinction is

57

00:02:49,190 --> 00:02:47,040

whether a scientific study on the

58

00:02:52,949 --> 00:02:49,200

validity of astrology

59

00:02:55,509 --> 00:02:52,959

investigates the above below theorem

60

00:02:57,509 --> 00:02:55,519

or whether the heat rate

61

00:03:05,430 --> 00:02:57,519

that means the performance of

62

00:03:11,830 --> 00:03:08,550

this differentiation is reflected in two

63

00:03:14,949 --> 00:03:11,840

research paradigms each with its own

64

00:03:17,030 --> 00:03:14,959

methodological problems

65

00:03:19,830 --> 00:03:17,040

the first paradigm concerns the

66

00:03:21,430 --> 00:03:19,840

examination of isolated astrological

67

00:03:24,390 --> 00:03:21,440

assumptions

68

00:03:27,430 --> 00:03:24,400

such as the assumption that for example

69

00:03:28,789 --> 00:03:27,440

in the case of prominent athletes

70

00:03:34,949 --> 00:03:28,799

mars

71

00:03:36,149 --> 00:03:34,959

near the ascendant as expected by random

72

00:03:39,589 --> 00:03:36,159

chance

73

00:03:42,149 --> 00:03:39,599

as michelle and francoise go class

74

00:03:44,869 --> 00:03:42,159

well-known study

75

00:03:45,670 --> 00:03:44,879

studies have shown

76

00:03:50,869 --> 00:03:45,680

are

77

00:03:52,710 --> 00:03:50,879

found between the horoscopes of loving

78

00:03:55,830 --> 00:03:52,720

partners or friends

79

00:04:00,710 --> 00:03:55,840

than would be expected by chance

80

00:04:05,990 --> 00:04:03,190

in the case of the second paradigm

81

00:04:08,550 --> 00:04:06,000

empirical investigations usually apply

82

00:04:11,990 --> 00:04:08,560

matching experiments

83

00:04:15,830 --> 00:04:12,000

astrologers for example get 10

84

00:04:18,390 --> 00:04:15,840

horoscopes and 10 psychological reports

85

00:04:19,990 --> 00:04:18,400

and must assign the related horoscopes

86

00:04:21,830 --> 00:04:20,000

and reports

87

00:04:24,230 --> 00:04:21,840

as it was the case in an early

88

00:04:25,350 --> 00:04:24,240

successful experiment published by

89

00:04:28,550 --> 00:04:25,360

american

90

00:04:32,790 --> 00:04:28,560

psycho psychologist vernon clark

91

00:04:37,749 --> 00:04:35,830

with this second method the method the

92

00:04:40,550 --> 00:04:37,759

matching experiments

93

00:04:43,030 --> 00:04:40,560

no direct proof of the validity of the

94

00:04:45,830 --> 00:04:43,040

above below theorem can be obtained from

95

00:04:48,469 --> 00:04:45,840

the results

96

00:04:50,150 --> 00:04:48,479

even excluding conventional possible

97

00:04:52,870 --> 00:04:50,160

explanations

98

00:04:55,270 --> 00:04:52,880

the success of the astrologers

99

00:05:00,710 --> 00:04:55,280

could be attributed to their psy

100

00:05:04,870 --> 00:05:02,230

accordingly

101
00:05:07,110 --> 00:05:04,880
if we assume the validity of astrology

102
00:05:09,029 --> 00:05:07,120
or astrological practice

103
00:05:11,830 --> 00:05:09,039
we are dealing

104
00:05:15,029 --> 00:05:11,840
with or maybe dealing with separate

105
00:05:19,749 --> 00:05:17,590
the first concerns the above below

106
00:05:21,029 --> 00:05:19,759
theorem

107
00:05:23,749 --> 00:05:21,039
the second

108
00:05:25,270 --> 00:05:23,759
can occur in the process of horoscope

109
00:05:27,909 --> 00:05:25,280
interpretation

110
00:05:30,550 --> 00:05:27,919
and interaction with clients

111
00:05:32,230 --> 00:05:30,560
being describable by the concepts of

112
00:05:34,550 --> 00:05:32,240
parapsychology

113
00:05:35,510 --> 00:05:34,560

a third would be a form of synchronistic

114

00:05:38,150 --> 00:05:35,520

events

115

00:05:39,350 --> 00:05:38,160

that is assumed to occur in divinatory

116

00:05:42,710 --> 00:05:39,360

practices

117

00:05:46,230 --> 00:05:42,720

based on alleratoric processes

118

00:05:48,310 --> 00:05:46,240

as it is the case in horary astrology

119

00:05:53,510 --> 00:05:48,320

however i will not deal with the last

120

00:05:59,189 --> 00:05:55,909

horoscope interpretation is a complex

121

00:06:05,189 --> 00:05:59,199

process with space for intuition psi

122

00:06:10,629 --> 00:06:08,550

the letter is necessary to produce good

123

00:06:14,309 --> 00:06:10,639

interpretations

124

00:06:16,950 --> 00:06:14,319

just as in music there are lifeless

125

00:06:20,870 --> 00:06:16,960

and bland interpretations as well as

126
00:06:24,070 --> 00:06:20,880
soulful and ingenious interpretations of

127
00:06:26,550 --> 00:06:24,080
a composed piece of music

128
00:06:28,950 --> 00:06:26,560
so there are in the interpretations of

129
00:06:31,430 --> 00:06:28,960
horoscopes

130
00:06:33,270 --> 00:06:31,440
and just as one cannot say that the

131
00:06:35,350 --> 00:06:33,280
lifeless interpretation of a work of

132
00:06:38,790 --> 00:06:35,360
music is wrong

133
00:06:41,189 --> 00:06:38,800
if the interpreter adheres to the notes

134
00:06:44,150 --> 00:06:41,199
one cannot suggest an uninspired

135
00:06:46,150 --> 00:06:44,160
processing of a horoscope is wrong

136
00:06:50,070 --> 00:06:46,160
as long as the rules of the

137
00:06:56,150 --> 00:06:53,830
the interpretations are simply bad

138
00:06:58,790 --> 00:06:56,160

and of little meaning

139

00:07:01,110 --> 00:06:58,800

when the connection between the symbolic

140

00:07:03,110 --> 00:07:01,120

language of astrology

141

00:07:04,870 --> 00:07:03,120

and his concretization

142

00:07:07,110 --> 00:07:04,880

in the clients

143

00:07:10,550 --> 00:07:07,120

individually and collectively shaped

144

00:07:13,430 --> 00:07:10,560

environment is not successful

145

00:07:16,469 --> 00:07:13,440

in order to achieve a bullseye in an

146

00:07:18,230 --> 00:07:16,479

interpretation on an astrological level

147

00:07:21,110 --> 00:07:18,240

it is necessary

148

00:07:23,909 --> 00:07:21,120

to creatively translate the relatively

149

00:07:26,390 --> 00:07:23,919

abstract structural principles into

150

00:07:31,029 --> 00:07:26,400

possible concrete events

151

00:07:33,830 --> 00:07:31,039

in the laden's world or life world

152

00:07:36,390 --> 00:07:33,840

the schematic use of key astrological

153

00:07:39,189 --> 00:07:36,400

terms will have little success

154

00:07:40,710 --> 00:07:39,199

if one leaves aside psychological

155

00:07:43,110 --> 00:07:40,720

mechanisms

156

00:07:45,430 --> 00:07:43,120

such as the already mentioned barnum

157

00:07:54,469 --> 00:07:45,440

effect that also can provide the

158

00:07:59,589 --> 00:07:55,710

the

159

00:08:01,909 --> 00:07:59,599

complexity of necessary translation work

160

00:08:04,790 --> 00:08:01,919

also accounts for many problems in

161

00:08:07,029 --> 00:08:04,800

scientific studies on the validity of

162

00:08:10,150 --> 00:08:07,039

astrology

163

00:08:13,270 --> 00:08:10,160

they concern what is called the german

164

00:08:16,150 --> 00:08:13,280

outside clinton that means limits of

165

00:08:21,670 --> 00:08:18,629

this means according to the theoretical

166

00:08:22,790 --> 00:08:21,680

model assumption of revised astrology

167

00:08:25,110 --> 00:08:22,800

and this

168

00:08:26,950 --> 00:08:25,120

revised astrology is

169

00:08:29,270 --> 00:08:26,960

a strongly psychologically and

170

00:08:31,749 --> 00:08:29,280

scientifically oriented approach that

171

00:08:34,469 --> 00:08:31,759

was created by german astrologers in the

172

00:08:36,790 --> 00:08:34,479

first half of the 20th century

173

00:08:39,190 --> 00:08:36,800

and this thomas ring is one of the

174

00:08:40,389 --> 00:08:39,200

most important of these guys

175

00:08:44,550 --> 00:08:40,399

and he also

176

00:08:45,910 --> 00:08:44,560

coined this term revised astrology

177

00:08:48,870 --> 00:08:45,920

so according

178

00:08:51,750 --> 00:08:48,880

to this theoretical model

179

00:08:54,470 --> 00:08:51,760

one only finds structural features and

180

00:08:57,670 --> 00:08:54,480

character traits in the chart that must

181

00:08:59,829 --> 00:08:57,680

be interpreted in relation to external

182

00:09:03,030 --> 00:08:59,839

conditions

183

00:09:05,750 --> 00:09:03,040

if for instance a favorable mercury

184

00:09:07,509 --> 00:09:05,760

position is associated with a pronounced

185

00:09:09,590 --> 00:09:07,519

ability to think

186

00:09:13,990 --> 00:09:09,600

and communicate

187

00:09:16,150 --> 00:09:14,000

no conclusions can be drawn about the iq

188

00:09:19,670 --> 00:09:16,160

if there is a severe degree of

189

00:09:23,030 --> 00:09:19,680

impairment of the ability to communicate

190

00:09:25,990 --> 00:09:23,040

due to a severe mental disability

191

00:09:28,150 --> 00:09:26,000

the favorable in quotation marks mercury

192

00:09:31,030 --> 00:09:28,160

position in the birth chart

193

00:09:37,750 --> 00:09:31,040

can only be determined in comparison to

194

00:09:43,910 --> 00:09:40,470

but since there is no agreement among

195

00:09:46,470 --> 00:09:43,920

astrologers on the significance of these

196

00:09:49,509 --> 00:09:46,480

these limits of validity

197

00:09:53,910 --> 00:09:49,519

this leads to regular overestimation of

198

00:09:57,190 --> 00:09:53,920

one's own capabilities among astrologers

199

00:10:01,190 --> 00:09:57,200

and also to matching experiments

200

00:10:04,550 --> 00:10:01,200

in which astrologers to name one example

201
00:10:06,870 --> 00:10:04,560
are asked to distinguish horoscopes of

202
00:10:10,150 --> 00:10:06,880
100 smart pupils

203
00:10:12,710 --> 00:10:10,160
and 100 mentally pupils

204
00:10:14,710 --> 00:10:12,720
and to allocate them to their respective

205
00:10:16,550 --> 00:10:14,720
troops

206
00:10:18,389 --> 00:10:16,560
the allocation performance of the

207
00:10:21,430 --> 00:10:18,399
astrologers involved

208
00:10:23,190 --> 00:10:21,440
was even marginally worse than if dice

209
00:10:25,200 --> 00:10:23,200
had been thrown

210
00:10:28,389 --> 00:10:25,210
who would be surprised

211
00:10:30,710 --> 00:10:28,399
[Applause]

212
00:10:33,350 --> 00:10:30,720
in the following i will address some

213
00:10:36,069 --> 00:10:33,360

methodological problems to be considered

214

00:10:37,990 --> 00:10:36,079

in future empirical research on

215

00:10:40,310 --> 00:10:38,000

astrology

216

00:10:41,910 --> 00:10:40,320

they can be classified according to the

217

00:10:44,790 --> 00:10:41,920

distinction between

218

00:10:46,630 --> 00:10:44,800

the direct study of the abt

219

00:10:49,030 --> 00:10:46,640

both below theorem

220

00:10:52,230 --> 00:10:49,040

and the study of astrologers

221

00:10:58,389 --> 00:10:55,269

in statistical tests whose hypotheses

222

00:11:01,509 --> 00:10:58,399

concern frequencies of occurrence of

223

00:11:04,230 --> 00:11:01,519

certain constellations and aspects

224

00:11:07,190 --> 00:11:04,240

and where it is not possible to make a

225

00:11:11,030 --> 00:11:07,200

simple comparison of matched groups

226
00:11:15,430 --> 00:11:11,040
the determination of random expectation

227
00:11:20,230 --> 00:11:17,829
different methods are used to deal with

228
00:11:23,750 --> 00:11:20,240
the resulting sampling problems and

229
00:11:25,350 --> 00:11:23,760
creating control groups

230
00:11:29,269 --> 00:11:25,360
dutch state

231
00:11:32,470 --> 00:11:29,279
statistician jan ruiz for example used

232
00:11:35,350 --> 00:11:32,480
three meta methods in an investigation

233
00:11:38,230 --> 00:11:35,360
of serial killers

234
00:11:41,350 --> 00:11:38,240
it was first the bootstram method

235
00:11:45,030 --> 00:11:41,360
using a large group of comparison charts

236
00:11:48,310 --> 00:11:45,040
from an astrological database

237
00:11:51,670 --> 00:11:48,320
then he also used the shuffling method

238
00:11:55,269 --> 00:11:51,680

by creating artificial charts by random

239

00:11:57,990 --> 00:11:55,279

recombination of astrological factors

240

00:12:00,870 --> 00:11:58,000

of the existing

241

00:12:01,829 --> 00:12:00,880

charts of the serial killers

242

00:12:05,269 --> 00:12:01,839

and then

243

00:12:07,990 --> 00:12:05,279

third he used a time shifting method

244

00:12:11,269 --> 00:12:08,000

and in this case the actual birthday is

245

00:12:13,829 --> 00:12:11,279

shifted step by step for example by plus

246

00:12:16,629 --> 00:12:13,839

or minus seven days

247

00:12:17,509 --> 00:12:16,639

under the assumption that the postulated

248

00:12:20,790 --> 00:12:17,519

effect

249

00:12:23,350 --> 00:12:20,800

progressively weakens

250

00:12:25,670 --> 00:12:23,360

all three methods have their benefits

251
00:12:28,470 --> 00:12:25,680
but also problems depending on the

252
00:12:30,389 --> 00:12:28,480
research question and investigation

253
00:12:32,389 --> 00:12:30,399
design

254
00:12:34,870 --> 00:12:32,399
it would go too far

255
00:12:38,629 --> 00:12:34,880
to go into details because one would

256
00:12:41,750 --> 00:12:38,639
have to consider each study individually

257
00:12:44,629 --> 00:12:41,760
i only like to take a closer look

258
00:12:47,269 --> 00:12:44,639
on the time shifting method because it

259
00:12:49,750 --> 00:12:47,279
concerns an easily overlooked but

260
00:12:52,790 --> 00:12:49,760
crucial point

261
00:12:55,590 --> 00:12:52,800
this method assumes a homogeneous

262
00:12:58,550 --> 00:12:55,600
astrological timeline which allows

263
00:13:01,350 --> 00:12:58,560

arbitrary operations that are in a way

264

00:13:02,790 --> 00:13:01,360

comparable with the interval scaled

265

00:13:04,870 --> 00:13:02,800

dimension of

266

00:13:10,629 --> 00:13:04,880

physical time

267

00:13:16,629 --> 00:13:13,910

by using the time shifting method one

268

00:13:19,030 --> 00:13:16,639

follows the idea

269

00:13:21,829 --> 00:13:19,040

that an actually found constellation in

270

00:13:24,949 --> 00:13:21,839

the chart of the investigated subject

271

00:13:27,350 --> 00:13:24,959

should be the best the perfect one

272

00:13:28,629 --> 00:13:27,360

by shifting his or her birthday on the

273

00:13:31,350 --> 00:13:28,639

timeline

274

00:13:32,710 --> 00:13:31,360

the effects or constellations

275

00:13:35,110 --> 00:13:32,720

searched for

276

00:13:38,150 --> 00:13:35,120
should weaken comparable with

277

00:13:39,509 --> 00:13:38,160
astrological idea of decreasing effect

278

00:13:41,509 --> 00:13:39,519
of an aspect

279

00:13:45,030 --> 00:13:41,519
corresponding with its increasing

280

00:13:46,710 --> 00:13:45,040
inaccuracy what is called orbs in

281

00:13:49,590 --> 00:13:46,720
astrology

282

00:13:52,150 --> 00:13:49,600
orbs of of an aspect

283

00:13:54,629 --> 00:13:52,160
this method is suitable for the

284

00:13:56,949 --> 00:13:54,639
investigation of single aspects

285

00:13:58,870 --> 00:13:56,959
related to one date concerning

286

00:14:01,829 --> 00:13:58,880
fast-moving planets

287

00:14:05,430 --> 00:14:01,839
but not for complex astrological

288

00:14:11,350 --> 00:14:08,470

in complex constellations

289

00:14:14,870 --> 00:14:11,360

astrological variables are subject to

290

00:14:17,189 --> 00:14:14,880

complex rhythmic overlaps

291

00:14:19,030 --> 00:14:17,199

in the above mentioned experiments i

292

00:14:22,230 --> 00:14:19,040

conducted with a colleague

293

00:14:24,949 --> 00:14:22,240

on astrological synesthesia

294

00:14:28,230 --> 00:14:24,959

we developed a method to take this

295

00:14:31,590 --> 00:14:28,240

problem into account we calculated an

296

00:14:32,949 --> 00:14:31,600

individual random expectation value for

297

00:14:35,189 --> 00:14:32,959

each pair

298

00:14:37,430 --> 00:14:35,199

in this uh synchronistic

299

00:14:39,350 --> 00:14:37,440

synthetic

300

00:14:42,829 --> 00:14:39,360

experiment for each pair

301
00:14:45,189 --> 00:14:42,839
of birth horoscopes using monte carlo

302
00:14:47,590 --> 00:14:45,199
simulations a method

303
00:14:49,910 --> 00:14:47,600
that has since become feasible

304
00:14:52,710 --> 00:14:49,920
due to the significant increase in

305
00:14:54,389 --> 00:14:52,720
computer figuring power

306
00:14:56,870 --> 00:14:54,399
with this technique

307
00:14:59,430 --> 00:14:56,880
the complex superposition of the orbital

308
00:15:02,389 --> 00:14:59,440
movements of the relevant celestial

309
00:15:05,110 --> 00:15:02,399
bodies are adequately considered

310
00:15:06,550 --> 00:15:05,120
from a geocentric perspective

311
00:15:09,430 --> 00:15:06,560
and now i

312
00:15:11,350 --> 00:15:09,440
show you a figure from that study it's

313
00:15:13,910 --> 00:15:11,360

only to show how

314

00:15:15,990 --> 00:15:13,920

different the quality of time

315

00:15:17,990 --> 00:15:16,000

so to say is for different subjects so

316

00:15:19,670 --> 00:15:18,000

we see here

317

00:15:23,030 --> 00:15:19,680

two graphs

318

00:15:26,470 --> 00:15:23,040

uh that are related to uh different

319

00:15:30,870 --> 00:15:26,480

subjects and it shows the same

320

00:15:32,870 --> 00:15:30,880

period of time that means the year 1955

321

00:15:34,949 --> 00:15:32,880

and here we have the

322

00:15:37,829 --> 00:15:34,959

the month of this the 12 months of this

323

00:15:39,509 --> 00:15:37,839

year and we only have to look at the

324

00:15:41,829 --> 00:15:39,519

line above here

325

00:15:45,350 --> 00:15:41,839

and we see that they differ are

326

00:15:46,949 --> 00:15:45,360

differing significantly over here is a

327

00:15:50,790 --> 00:15:46,959

large peak

328

00:15:53,590 --> 00:15:50,800

uh in august september here we have a a

329

00:15:56,310 --> 00:15:53,600

valley and here you have also

330

00:15:57,509 --> 00:15:56,320

a gray line to see that here we have a

331

00:16:00,150 --> 00:15:57,519

high peak

332

00:16:03,269 --> 00:16:00,160

and in this chart we have a low peak

333

00:16:05,509 --> 00:16:03,279

this is the astrological astronomical

334

00:16:07,590 --> 00:16:05,519

situation in the very same year

335

00:16:09,430 --> 00:16:07,600

but related

336

00:16:12,150 --> 00:16:09,440

to the aspects to

337

00:16:14,470 --> 00:16:12,160

the birth charts of different subjects

338

00:16:16,710 --> 00:16:14,480

only for the illustration

339

00:16:19,590 --> 00:16:16,720

how the time quality

340

00:16:24,389 --> 00:16:19,600

has to be considered in relation to the

341

00:16:27,990 --> 00:16:25,990

okay

342

00:16:29,990 --> 00:16:28,000

now a next

343

00:16:32,470 --> 00:16:30,000

often made mistake

344

00:16:35,350 --> 00:16:32,480

another problem that is almost

345

00:16:37,910 --> 00:16:35,360

universally ignored by both as georges

346

00:16:40,230 --> 00:16:37,920

and skeptics is how

347

00:16:42,710 --> 00:16:40,240

to deal with the signs of the zodiac in

348

00:16:45,990 --> 00:16:42,720

classical studies of correlation

349

00:16:48,069 --> 00:16:46,000

for example between sun signs and

350

00:16:50,710 --> 00:16:48,079

occupation

351
00:16:53,430 --> 00:16:50,720
while signs of the subject represent

352
00:16:55,590 --> 00:16:53,440
analytical categories from an

353
00:16:58,550 --> 00:16:55,600
astrological perspective

354
00:17:01,509 --> 00:16:58,560
they cannot be treated as discrete facts

355
00:17:02,870 --> 00:17:01,519
from an external scientific point of

356
00:17:06,870 --> 00:17:02,880
view

357
00:17:08,870 --> 00:17:06,880
comparable with biological sex or age or

358
00:17:11,510 --> 00:17:08,880
eye color

359
00:17:14,150 --> 00:17:11,520
the zodiac divided into 12

360
00:17:16,549 --> 00:17:14,160
30 degree sections with the respective

361
00:17:19,270 --> 00:17:16,559
zodiacal sign assignments

362
00:17:21,990 --> 00:17:19,280
represents a human construction

363
00:17:24,549 --> 00:17:22,000

and cannot be treated

364

00:17:25,990 --> 00:17:24,559

as a natural given property

365

00:17:28,069 --> 00:17:26,000

so

366

00:17:30,470 --> 00:17:28,079

if one wants to check the connection

367

00:17:33,430 --> 00:17:30,480

between earthly events and planets in

368

00:17:35,750 --> 00:17:33,440

sodium signs then one has to test

369

00:17:39,430 --> 00:17:35,760

against other division divisions of the

370

00:17:42,870 --> 00:17:39,440

zodiac for control take about 45 degree

371

00:17:49,750 --> 00:17:42,880

sections or 20 degree sections

372

00:17:56,230 --> 00:17:53,029

the direct examination of the abt

373

00:17:57,350 --> 00:17:56,240

usually describes an earthly fact

374

00:18:00,830 --> 00:17:57,360

event

375

00:18:03,270 --> 00:18:00,840

personality trait career choice to which

376

00:18:07,110 --> 00:18:03,280

correspondences to the astronomical

377

00:18:11,430 --> 00:18:09,830

events such as suicide

378

00:18:13,029 --> 00:18:11,440

car accident

379

00:18:16,070 --> 00:18:13,039

and lottery win

380

00:18:18,310 --> 00:18:16,080

are clear facts however

381

00:18:20,710 --> 00:18:18,320

even though the first mentioned event is

382

00:18:23,430 --> 00:18:20,720

also clear in its consequences

383

00:18:25,750 --> 00:18:23,440

it makes a significant difference

384

00:18:27,909 --> 00:18:25,760

whether a car accident only caused a

385

00:18:30,950 --> 00:18:27,919

minor loss or whether it is a

386

00:18:33,430 --> 00:18:30,960

life-changing event

387

00:18:35,669 --> 00:18:33,440

and if one makes a small lottery win

388

00:18:36,630 --> 00:18:35,679

with three correctly typed numbers out

389

00:18:39,590 --> 00:18:36,640

of six

390

00:18:42,950 --> 00:18:39,600

then this may even cause disappointment

391

00:18:46,070 --> 00:18:42,960

because one had hoped for more

392

00:18:48,390 --> 00:18:46,080

a similar problem arises when one takes

393

00:18:51,110 --> 00:18:48,400

the fact marriage

394

00:18:54,390 --> 00:18:51,120

whether it is marriage for love marriage

395

00:18:56,789 --> 00:18:54,400

for convenience a forced marriage

396

00:18:58,950 --> 00:18:56,799

whether it is happy or unhappy

397

00:19:02,150 --> 00:18:58,960

must be distinguished

398

00:19:04,390 --> 00:19:02,160

this may seem trivial and self-evident

399

00:19:06,710 --> 00:19:04,400

but often even such modest

400

00:19:07,909 --> 00:19:06,720

considerations were not sufficiently

401
00:19:10,789 --> 00:19:07,919
considered

402
00:19:13,909 --> 00:19:10,799
in astrological investigations

403
00:19:17,270 --> 00:19:13,919
and an alleged fact was not

404
00:19:18,710 --> 00:19:17,280
reflectively taken as an unambiguous

405
00:19:19,590 --> 00:19:18,720
detail

406
00:19:23,110 --> 00:19:19,600
thus

407
00:19:25,110 --> 00:19:23,120
the probability of proving a potentially

408
00:19:29,990 --> 00:19:25,120
significant correlation

409
00:19:35,750 --> 00:19:32,789
similar caution is required when using

410
00:19:38,669 --> 00:19:35,760
questionnaires for self-disclosure of

411
00:19:41,190 --> 00:19:38,679
personality traits due to the

412
00:19:42,950 --> 00:19:41,200
discrepancy between idealized

413
00:19:45,510 --> 00:19:42,960

self-perception

414

00:19:47,590 --> 00:19:45,520
and actual personality profile and

415

00:19:50,870 --> 00:19:47,600
behavior

416

00:19:53,909 --> 00:19:50,880
even simple astrological prior knowledge

417

00:20:04,310 --> 00:19:53,919
such as knowing one's sun sign

418

00:20:09,350 --> 00:20:07,590
in matching experiments the quality of

419

00:20:13,669 --> 00:20:09,360
the participating

420

00:20:15,830 --> 00:20:13,679
astrologers plays a decisive role

421

00:20:18,070 --> 00:20:15,840
the success of the counseling is the

422

00:20:19,750 --> 00:20:18,080
result of many factors

423

00:20:21,110 --> 00:20:19,760
some of which are independent of

424

00:20:23,190 --> 00:20:21,120
astrology

425

00:20:24,710 --> 00:20:23,200
such as intuition

426
00:20:26,070 --> 00:20:24,720
psychological

427
00:20:27,590 --> 00:20:26,080
empathy

428
00:20:29,029 --> 00:20:27,600
cold reading

429
00:20:31,669 --> 00:20:29,039
and maybe

430
00:20:35,750 --> 00:20:31,679
clairvoyant abilities in combination

431
00:20:37,590 --> 00:20:35,760
with well-known cognitive illusions

432
00:20:40,149 --> 00:20:37,600
therefore

433
00:20:43,830 --> 00:20:40,159
meaningful consultations can also be

434
00:20:46,549 --> 00:20:43,840
made on the basis of false horoscopes

435
00:20:49,750 --> 00:20:46,559
however in matching experiments

436
00:20:51,510 --> 00:20:49,760
quality of an astrologer does not refer

437
00:20:55,270 --> 00:20:51,520
to such success

438
00:20:58,710 --> 00:20:55,280

but to an ability to work self-aware

439

00:21:01,750 --> 00:20:58,720

on what basis individual invitations and

440

00:21:05,350 --> 00:21:01,760

statements are made

441

00:21:09,190 --> 00:21:05,360

a sensitivity for the limits of validity

442

00:21:12,310 --> 00:21:09,200

described above is of central importance

443

00:21:14,950 --> 00:21:12,320

as well as a sensitive handling of the

444

00:21:20,710 --> 00:21:14,960

language for example when writing short

445

00:21:25,270 --> 00:21:23,270

one point of criticism of such matching

446

00:21:27,750 --> 00:21:25,280

experiments is

447

00:21:30,149 --> 00:21:27,760

that they represent artificial

448

00:21:32,870 --> 00:21:30,159

situations

449

00:21:34,789 --> 00:21:32,880

the participating astrologers would have

450

00:21:37,350 --> 00:21:34,799

to adopt practices

451
00:21:38,710 --> 00:21:37,360
that do not correspond to their standard

452
00:21:42,630 --> 00:21:38,720
practice

453
00:21:44,710 --> 00:21:42,640
which would make failure understandable

454
00:21:48,070 --> 00:21:44,720
with a good study design

455
00:21:50,630 --> 00:21:48,080
it is possible to meet these objections

456
00:21:54,549 --> 00:21:50,640
by adapting the tasks as closely as

457
00:21:56,149 --> 00:21:54,559
possible to the practical situation

458
00:21:58,549 --> 00:21:56,159
this can be

459
00:22:01,350 --> 00:21:58,559
done by leaving the used technique

460
00:22:03,190 --> 00:22:01,360
completely open and allowing questions

461
00:22:06,390 --> 00:22:03,200
about the chart owner

462
00:22:08,710 --> 00:22:06,400
as long as they do not concern points to

463
00:22:10,430 --> 00:22:08,720

make an assignment

464

00:22:12,789 --> 00:22:10,440

to the horoscope possible by

465

00:22:15,029 --> 00:22:12,799

non-astrological means

466

00:22:17,669 --> 00:22:15,039

these measures offer a very close

467

00:22:19,029 --> 00:22:17,679

proximity of the task to everyday

468

00:22:21,350 --> 00:22:19,039

practice

469

00:22:23,909 --> 00:22:21,360

and represent improved experimental

470

00:22:26,390 --> 00:22:23,919

conditions for the participants without

471

00:22:28,789 --> 00:22:26,400

this being at the expense

472

00:22:31,430 --> 00:22:28,799

of experimental control

473

00:22:32,870 --> 00:22:31,440

for example with regard to hidden coups

474

00:22:36,549 --> 00:22:32,880

cues

475

00:22:38,710 --> 00:22:36,559

there are two points to keep in mind

476

00:22:41,909 --> 00:22:38,720

due to the great freedom in terms of the

477

00:22:44,710 --> 00:22:41,919

technology used astrologers and their

478

00:22:47,029 --> 00:22:44,720

claims are now being tested to see what

479

00:22:49,990 --> 00:22:47,039

they actually accomplish

480

00:22:51,909 --> 00:22:50,000

astrology as a key system of symbols and

481

00:22:53,350 --> 00:22:51,919

interpretations is pushed into the

482

00:22:55,990 --> 00:22:53,360

background

483

00:22:57,029 --> 00:22:56,000

one simply does not know how it was

484

00:22:59,590 --> 00:22:57,039

applied

485

00:23:01,669 --> 00:22:59,600

and what role it played in the first

486

00:23:03,830 --> 00:23:01,679

place

487

00:23:05,750 --> 00:23:03,840

further steps of investigation would be

488

00:23:10,630 --> 00:23:05,760

necessary to learn

489

00:23:15,029 --> 00:23:12,549

furthermore the question of what

490

00:23:17,190 --> 00:23:15,039

qualities are required in astrologers in

491

00:23:19,990 --> 00:23:17,200

order to increase the probability of

492

00:23:24,470 --> 00:23:20,000

successfully solving the tasks

493

00:23:27,830 --> 00:23:26,070

the best possible knowledge of the

494

00:23:30,230 --> 00:23:27,840

researcher about the nature of the

495

00:23:31,510 --> 00:23:30,240

researched object seems to be a matter

496

00:23:33,510 --> 00:23:31,520

of course

497

00:23:34,950 --> 00:23:33,520

but this varies in the field of

498

00:23:37,830 --> 00:23:34,960

anomalies

499

00:23:41,190 --> 00:23:37,840

furthermore some scientists feel able to

500

00:23:44,310 --> 00:23:41,200

conduct studies on astrology without

501
00:23:45,830 --> 00:23:44,320
properly understanding how astrological

502
00:23:48,630 --> 00:23:45,840
practice works

503
00:23:51,510 --> 00:23:48,640
and what they are investigating

504
00:23:53,669 --> 00:23:51,520
the results

505
00:23:56,950 --> 00:23:53,679
this results in poor or meaningless

506
00:24:00,149 --> 00:23:56,960
studies that fill the statistics and are

507
00:24:02,789 --> 00:24:00,159
weighted equally as thoroughly thought

508
00:24:04,950 --> 00:24:02,799
out studies

509
00:24:07,590 --> 00:24:04,960
the few but nevertheless impressive

510
00:24:09,430 --> 00:24:07,600
positive individual findings both on the

511
00:24:11,750 --> 00:24:09,440
above below theorem

512
00:24:13,830 --> 00:24:11,760
and on the field of matching experiments

513
00:24:16,830 --> 00:24:13,840

assign astrology

514

00:24:20,070 --> 00:24:16,840

a justified place in

515

00:24:22,870 --> 00:24:20,080

anomalistics expressly the anomalistic

516

00:24:25,510 --> 00:24:22,880

approach requires respectable knowledge

517

00:24:28,470 --> 00:24:25,520

of different astrological approaches as

518

00:24:31,269 --> 00:24:28,480

well as the mechanisms leading to

519

00:24:33,909 --> 00:24:31,279

experiences of subjective evidence in

520

00:24:35,110 --> 00:24:33,919

astrologers and clients

521

00:24:38,950 --> 00:24:35,120

only then

522

00:24:40,549 --> 00:24:38,960

is it possible to sufficiently formulate

523

00:24:42,870 --> 00:24:40,559

hypotheses

524

00:24:46,549 --> 00:24:42,880

in which it is clear what is being

525

00:24:51,510 --> 00:24:48,630

in addition to many unobjective and

526
00:24:53,590 --> 00:24:51,520
non-informed criticisms there is

527
00:24:55,590 --> 00:24:53,600
also a number of important critical

528
00:24:56,870 --> 00:24:55,600
works in astrology

529
00:24:59,350 --> 00:24:56,880
that offer

530
00:25:02,710 --> 00:24:59,360
illuminating insights into the process

531
00:25:04,870 --> 00:25:02,720
of contemporary western astrology cult

532
00:25:06,070 --> 00:25:04,880
practices

533
00:25:08,549 --> 00:25:06,080
dean's

534
00:25:11,750 --> 00:25:08,559
astrology and human judgment and

535
00:25:15,430 --> 00:25:11,760
calories why astrology does not doesn't

536
00:25:17,350 --> 00:25:15,440
work for example offer unpleasant

537
00:25:21,029 --> 00:25:17,360
but nevertheless very important

538
00:25:23,269 --> 00:25:21,039

expositions for astrologers that provide

539

00:25:25,269 --> 00:25:23,279

a clearer self-understanding for their

540

00:25:28,230 --> 00:25:25,279

own actions

541

00:25:30,350 --> 00:25:28,240

the latter essay particularly displays

542

00:25:32,070 --> 00:25:30,360

many possibilities for

543

00:25:34,070 --> 00:25:32,080

self-immunizations

544

00:25:36,630 --> 00:25:34,080

a closed system such as adept

545

00:25:39,830 --> 00:25:36,640

astrologers are working with

546

00:25:43,350 --> 00:25:39,840

which eventually remains irrefutable due

547

00:25:45,750 --> 00:25:43,360

to its complexity for each failure a

548

00:25:47,269 --> 00:25:45,760

system imminent or external reason can

549

00:25:51,190 --> 00:25:47,279

be found

550

00:25:54,070 --> 00:25:51,200

seemingly more or less plausible

551
00:25:55,590 --> 00:25:54,080
still this does not mean that the above

552
00:25:57,990 --> 00:25:55,600
below theorem

553
00:26:00,310 --> 00:25:58,000
as a scientific anomaly

554
00:26:01,750 --> 00:26:00,320
is not scientifically accessible in

555
00:26:04,549 --> 00:26:01,760
general

556
00:26:07,269 --> 00:26:04,559
it also does not mean that astrologers

557
00:26:09,909 --> 00:26:07,279
excuses further failure are necessary

558
00:26:13,750 --> 00:26:09,919
not valid arguments and should therefore

559
00:26:18,070 --> 00:26:15,669
summarizing the requirements for

560
00:26:20,470 --> 00:26:18,080
scientific studies on the validity of

561
00:26:24,230 --> 00:26:20,480
astrology we get

562
00:26:27,029 --> 00:26:24,240
the following list

563
00:26:28,549 --> 00:26:27,039

this required a respectable knowledge of

564

00:26:31,029 --> 00:26:28,559

different

565

00:26:34,510 --> 00:26:31,039

astrological approaches

566

00:26:38,149 --> 00:26:34,520

knowledge about astronomical peculiar

567

00:26:40,070 --> 00:26:38,159

peculiarities related to astrology

568

00:26:44,070 --> 00:26:40,080

knowledge of astrology as a symbol

569

00:26:46,630 --> 00:26:44,080

system and a human knowledge system

570

00:26:50,830 --> 00:26:46,640

knowledge about mechanisms leading to

571

00:26:53,750 --> 00:26:50,840

subjective evidence in astrologers and

572

00:26:57,909 --> 00:26:53,760

clients and it's recommended to work

573

00:26:58,950 --> 00:26:57,919

with selected self-aware astrologers

574

00:27:01,750 --> 00:26:58,960

and

575

00:27:04,149 --> 00:27:01,760

obviously the usual statistical skills

576
00:27:04,830 --> 00:27:04,159
are needed

577
00:27:07,510 --> 00:27:04,840
these

578
00:27:09,990 --> 00:27:07,520
presentations presentation an attempt

579
00:27:13,190 --> 00:27:10,000
was made to encourage researchers to

580
00:27:16,630 --> 00:27:13,200
re-adopt earlier approaches increasingly

581
00:27:18,549 --> 00:27:16,640
falling into oblivion modern databases

582
00:27:20,470 --> 00:27:18,559
and data processing

583
00:27:22,230 --> 00:27:20,480
offer many new possibilities for

584
00:27:23,350 --> 00:27:22,240
researchers

585
00:27:25,269 --> 00:27:23,360
there is

586
00:27:28,950 --> 00:27:25,279
studies become possible that were

587
00:27:30,789 --> 00:27:28,960
unthinkable 50 years ago

588
00:27:33,909 --> 00:27:30,799

be that as it may

589

00:27:35,510 --> 00:27:33,919

computing power alone does not guarantee

590

00:27:37,909 --> 00:27:35,520

an intelligent

591

00:27:40,630 --> 00:27:37,919

and successful study design

592

00:27:43,430 --> 00:27:40,640

a thorough knowledge of astrology in all

593

00:27:46,789 --> 00:27:43,440

its variants and aspects is just as

594

00:27:49,430 --> 00:27:46,799

important as astrologers being study

595

00:27:53,350 --> 00:27:49,440

participants who know their own

596

00:27:54,630 --> 00:27:53,360

practices self-reflect reflexively

597

00:27:57,029 --> 00:27:54,640

and view them

598

00:28:02,870 --> 00:27:57,039

critically

599

00:28:08,070 --> 00:28:05,909

so i already see a couple raised hands

600

00:28:10,149 --> 00:28:08,080

and uh i'm going to start with a

601
00:28:11,990 --> 00:28:10,159
question from mark so i'm going to hand

602
00:28:14,070 --> 00:28:12,000
the mic to mark

603
00:28:15,510 --> 00:28:14,080
i was wondering if uh

604
00:28:16,789 --> 00:28:15,520
you might

605
00:28:19,029 --> 00:28:16,799
be able to address some of the

606
00:28:20,789 --> 00:28:19,039
additional statistical challenges that

607
00:28:23,430 --> 00:28:20,799
are unique to astrology so you can't

608
00:28:25,110 --> 00:28:23,440
just approach astrology research with

609
00:28:27,430 --> 00:28:25,120
sort of a knowledge of standard

610
00:28:30,470 --> 00:28:27,440
statistics and uh in many respects

611
00:28:32,950 --> 00:28:30,480
because there are some unique challenges

612
00:28:34,630 --> 00:28:32,960
to studying astrology

613
00:28:37,029 --> 00:28:34,640

if you're studying the astronomical

614

00:28:38,950 --> 00:28:37,039

factors uh statistically so i'm just

615

00:28:40,230 --> 00:28:38,960

kind of curious what thoughts you have

616

00:28:41,350 --> 00:28:40,240

on that

617

00:28:42,870 --> 00:28:41,360

on the

618

00:28:44,950 --> 00:28:42,880

problems with the

619

00:28:46,310 --> 00:28:44,960

statistical evaluations

620

00:28:48,470 --> 00:28:46,320

yeah i mean that

621

00:28:51,750 --> 00:28:48,480

that is what i might try to mention with

622

00:28:54,710 --> 00:28:51,760

the um creating of control groups and

623

00:28:57,430 --> 00:28:54,720

you know that um

624

00:29:00,789 --> 00:28:57,440

in in former experiments there was often

625

00:29:02,789 --> 00:29:00,799

the the idea one can easily exchange

626
00:29:04,710 --> 00:29:02,799
astrological factors for example with

627
00:29:06,710 --> 00:29:04,720
shuffling method but with the

628
00:29:07,830 --> 00:29:06,720
overlapping of all these different

629
00:29:09,669 --> 00:29:07,840
rhythms

630
00:29:12,710 --> 00:29:09,679
we have

631
00:29:14,549 --> 00:29:12,720
such a complex situation that it's

632
00:29:18,389 --> 00:29:14,559
hardly

633
00:29:19,990 --> 00:29:18,399
possible to to estimate the likelihood

634
00:29:22,710 --> 00:29:20,000
of

635
00:29:25,190 --> 00:29:22,720
aspects and so i think with these monte

636
00:29:26,950 --> 00:29:25,200
carlo simulation methods one can do a

637
00:29:30,470 --> 00:29:26,960
lot of um

638
00:29:36,549 --> 00:29:32,310

dealing with these problems

639

00:29:40,310 --> 00:29:36,559

but it depends uh actually on on the

640

00:29:41,590 --> 00:29:40,320

individual experiment so some in some

641

00:29:43,430 --> 00:29:41,600

experiments it's

642

00:29:45,430 --> 00:29:43,440

more easier

643

00:29:48,070 --> 00:29:45,440

to use

644

00:29:50,710 --> 00:29:48,080

so to say normal uh statistical methods

645

00:29:53,510 --> 00:29:50,720

in others like our uh

646

00:29:55,669 --> 00:29:53,520

experiment on on sinistry

647

00:29:58,470 --> 00:29:55,679

we had to choose the other one and even

648

00:29:59,909 --> 00:29:58,480

there it is it is difficult so

649

00:30:01,669 --> 00:29:59,919

um

650

00:30:03,669 --> 00:30:01,679

but this is uh

651
00:30:05,990 --> 00:30:03,679
rather sophisticated so

652
00:30:08,149 --> 00:30:06,000
perhaps many in the audience

653
00:30:09,909 --> 00:30:08,159
are not able to follow if they don't

654
00:30:11,750 --> 00:30:09,919
know the study

655
00:30:15,190 --> 00:30:11,760
so

656
00:30:19,590 --> 00:30:18,149
all right i'm gonna pass the mic now to

657
00:30:23,669 --> 00:30:19,600
chantal

658
00:30:26,630 --> 00:30:23,679
how would one choose an astrologer

659
00:30:33,029 --> 00:30:26,640
how would one choose a nostalgia

660
00:30:39,269 --> 00:30:36,789
how would one choose a pseudo therapy

661
00:30:41,269 --> 00:30:39,279
period so it's it's uh

662
00:30:43,510 --> 00:30:41,279
often it's also a question of the

663
00:30:44,310 --> 00:30:43,520

connection between astrologer and client

664

00:30:45,510 --> 00:30:44,320

and

665

00:30:48,830 --> 00:30:45,520

some

666

00:30:51,510 --> 00:30:48,840

works well and others not but uh i

667

00:30:54,230 --> 00:30:51,520

mean um if

668

00:30:57,990 --> 00:30:54,240

in my opinion if an astrologer promises

669

00:31:01,029 --> 00:30:58,000

too much and two concrete things then

670

00:31:05,029 --> 00:31:01,039

i would be cautious so according to my

671

00:31:09,750 --> 00:31:08,230

events cannot be for example predicted

672

00:31:11,590 --> 00:31:09,760

one can only

673

00:31:12,950 --> 00:31:11,600

have some some

674

00:31:16,070 --> 00:31:12,960

yup

675

00:31:18,470 --> 00:31:16,080

and some possibilities

676
00:31:22,310 --> 00:31:18,480
for example uh consolation

677
00:31:24,029 --> 00:31:22,320
could be um manifest in a life but there

678
00:31:25,750 --> 00:31:24,039
you have to know a lot of

679
00:31:26,160 --> 00:31:25,760
circumstances

680
00:31:29,350 --> 00:31:26,170
so

681
00:31:32,470 --> 00:31:31,110
yeah no it's kind of

682
00:31:35,110 --> 00:31:32,480
you know because

683
00:31:37,029 --> 00:31:35,120
you're trying to find information and

684
00:31:38,470 --> 00:31:37,039
so you know if you have different astral

685
00:31:40,789 --> 00:31:38,480
you know if you have

686
00:31:43,750 --> 00:31:40,799
different astrologers doing the same

687
00:31:45,190 --> 00:31:43,760
person and looking at the variations of

688
00:31:46,630 --> 00:31:45,200

their readings

689

00:31:48,230 --> 00:31:46,640

yeah um

690

00:31:50,789 --> 00:31:48,240

you know that seems like probably the

691

00:31:54,789 --> 00:31:50,799

best way to go to kind of get it

692

00:31:59,350 --> 00:31:55,990

i don't know

693

00:32:02,230 --> 00:31:59,360

yeah the next question real quick um

694

00:32:03,430 --> 00:32:02,240

when there's a caesarean the child now

695

00:32:06,149 --> 00:32:03,440

is born

696

00:32:07,909 --> 00:32:06,159

at a time on an unnatural time i mean

697

00:32:09,990 --> 00:32:07,919

it's still you know natural that the

698

00:32:12,470 --> 00:32:10,000

child is born at that time

699

00:32:13,990 --> 00:32:12,480

and so um have you had any thoughts on

700

00:32:22,070 --> 00:32:14,000

that

701
00:32:25,269 --> 00:32:22,080
approach i i follow in this revised

702
00:32:27,110 --> 00:32:25,279
and it is said that um this kind of

703
00:32:29,190 --> 00:32:27,120
burst are not um

704
00:32:30,470 --> 00:32:29,200
so accurate than the other ones so

705
00:32:32,630 --> 00:32:30,480
because

706
00:32:34,630 --> 00:32:32,640
it's thought of that the the

707
00:32:35,830 --> 00:32:34,640
fetus

708
00:32:38,950 --> 00:32:35,840
itself

709
00:32:40,710 --> 00:32:38,960
initiates the birth and if it is a so to

710
00:32:43,750 --> 00:32:40,720
say artificial

711
00:32:45,990 --> 00:32:43,760
time of birth then um it does not work

712
00:32:49,430 --> 00:32:46,000
as good but

713
00:32:50,470 --> 00:32:49,440

that should be investigated i don't know

714

00:32:52,470 --> 00:32:50,480

it's just

715

00:32:54,070 --> 00:32:52,480

this problem yeah

716

00:32:55,750 --> 00:32:54,080

okay

717

00:32:57,509 --> 00:32:55,760

all right thank you

718

00:32:59,909 --> 00:32:57,519

um now i'm going to pass the microphone

719

00:33:02,710 --> 00:32:59,919

i'm going to mess up this name to cohen

720

00:33:05,509 --> 00:33:02,720

hello gerard you remember me it's 25

721

00:33:07,830 --> 00:33:05,519

years ago i think also in freiburg

722

00:33:10,470 --> 00:33:07,840

it's uh i'm a kalia

723

00:33:12,470 --> 00:33:10,480

oh it's yeah it's a good summary game

724

00:33:16,149 --> 00:33:12,480

for yeah for the

725

00:33:17,269 --> 00:33:16,159

general science public uh i just wanted

726

00:33:19,110 --> 00:33:17,279

to add

727

00:33:22,149 --> 00:33:19,120

for people who

728

00:33:25,430 --> 00:33:22,159

uh want to read more about the specific

729

00:33:27,190 --> 00:33:25,440

problems in astrology they uh

730

00:33:30,870 --> 00:33:27,200

can look at my

731

00:33:33,029 --> 00:33:30,880

my book which is freely downloadable at

732

00:33:33,830 --> 00:33:33,039

astrovdm.com

733

00:33:36,389 --> 00:33:33,840

uh

734

00:33:38,070 --> 00:33:36,399

i address a lot of those problems you

735

00:33:41,190 --> 00:33:38,080

mentioned like uh

736

00:33:45,029 --> 00:33:41,200

special techniques you need to

737

00:33:47,269 --> 00:33:45,039

to avoid difficulties i can put the link

738

00:33:51,029 --> 00:33:47,279

here in the in the chat box for the

739

00:33:57,190 --> 00:33:55,110

so yeah i just wanted to say that

740

00:33:59,350 --> 00:33:57,200

um

741

00:34:01,750 --> 00:33:59,360

not really knew what i what i uh

742

00:34:03,590 --> 00:34:01,760

pretended but it's still often

743

00:34:05,830 --> 00:34:03,600

overlooked so yeah probably for people

744

00:34:08,470 --> 00:34:05,840

who are not

745

00:34:09,349 --> 00:34:08,480

used to to deal with astrology

746

00:34:11,430 --> 00:34:09,359

uh

747

00:34:14,069 --> 00:34:11,440

yeah there are a lot of surprising

748

00:34:14,790 --> 00:34:14,079

things that you have to know uh i have i

749

00:34:18,069 --> 00:34:14,800

have

750

00:34:21,030 --> 00:34:18,079

software program

751

00:34:24,310 --> 00:34:21,040

uh which you can also try for free for

752

00:34:26,629 --> 00:34:24,320

25 days uh i have put a lot of

753

00:34:29,030 --> 00:34:26,639

statistical techniques and also this

754

00:34:31,829 --> 00:34:29,040

randomization so you

755

00:34:35,349 --> 00:34:31,839

you find some correlation and then you

756

00:34:38,230 --> 00:34:35,359

randomize data and then it does that 100

757

00:34:40,389 --> 00:34:38,240

times or so and if if the correlation is

758

00:34:41,909 --> 00:34:40,399

real

759

00:34:45,510 --> 00:34:41,919

well

760

00:34:51,510 --> 00:34:48,950

if you compare with the random shuffled

761

00:34:53,109 --> 00:34:51,520

data so that's that's in my

762

00:34:54,149 --> 00:34:53,119

software

763

00:34:56,790 --> 00:34:54,159

um

764

00:34:58,870 --> 00:34:56,800

so uh researchers who are interested in

765

00:35:01,109 --> 00:34:58,880

this work should

766

00:35:04,550 --> 00:35:01,119

get in touch with you

767

00:35:06,470 --> 00:35:04,560

outline of my research and so you know

768

00:35:08,470 --> 00:35:06,480

it needs a lot of effort to do this kind

769

00:35:11,270 --> 00:35:08,480

of studies

770

00:35:12,710 --> 00:35:11,280

yeah yeah sure

771

00:35:14,630 --> 00:35:12,720

i'm still working on

772

00:35:17,270 --> 00:35:14,640

i'm trying to collect data for my

773

00:35:20,710 --> 00:35:17,280

sinister research if people want to

774

00:35:22,950 --> 00:35:20,720

collaborate or have data

775

00:35:25,990 --> 00:35:22,960

just contact me all right and then

776

00:35:28,230 --> 00:35:26,000

finally we have courtney i thank you

777

00:35:31,670 --> 00:35:28,240

gearhart for all of your

778

00:35:34,710 --> 00:35:31,680

hard work and lifetime of experience on

779

00:35:35,829 --> 00:35:34,720

that paper you know i understand

780

00:35:37,589 --> 00:35:35,839

um

781

00:35:39,589 --> 00:35:37,599

it's such a vast

782

00:35:40,630 --> 00:35:39,599

problem to tackle in the first place the

783

00:35:43,510 --> 00:35:40,640

idea of

784

00:35:46,630 --> 00:35:43,520

researching quantitative research and in

785

00:35:49,990 --> 00:35:46,640

astrology and i just wanted to um

786

00:35:52,390 --> 00:35:50,000

pursue a bit of what market brought up

787

00:35:54,550 --> 00:35:52,400

on the ideas of

788

00:35:56,550 --> 00:35:54,560

research design methodologies

789

00:35:59,430 --> 00:35:56,560

statistical approaches

790

00:36:00,790 --> 00:35:59,440

i work for some time with uh kioski

791

00:36:02,550 --> 00:36:00,800

turvanan

792

00:36:05,430 --> 00:36:02,560

um in helsinki

793

00:36:07,829 --> 00:36:05,440

and he's had um

794

00:36:10,310 --> 00:36:07,839

over a dozen papers

795

00:36:12,950 --> 00:36:10,320

uh published in peer review

796

00:36:15,430 --> 00:36:12,960

uh researching just on the goklan data

797

00:36:17,270 --> 00:36:15,440

and he's got this really good um

798

00:36:19,190 --> 00:36:17,280

shuffling bootstrap

799

00:36:20,550 --> 00:36:19,200

uh methodology for doing the control

800

00:36:22,390 --> 00:36:20,560

groups and

801
00:36:23,349 --> 00:36:22,400
using p values

802
00:36:25,349 --> 00:36:23,359
um

803
00:36:26,550 --> 00:36:25,359
and in in the process of all of that you

804
00:36:28,310 --> 00:36:26,560
know there

805
00:36:30,150 --> 00:36:28,320
i think that we were able to come up

806
00:36:32,069 --> 00:36:30,160
with some really simplified research

807
00:36:33,270 --> 00:36:32,079
designs that solve a lot of those

808
00:36:34,790 --> 00:36:33,280
problems

809
00:36:36,390 --> 00:36:34,800
uh and and again they have been

810
00:36:39,270 --> 00:36:36,400
published in correlation i just want to

811
00:36:42,150 --> 00:36:39,280
bring up one for example

812
00:36:44,470 --> 00:36:42,160
working with complete data sets

813
00:36:45,349 --> 00:36:44,480

uh takes a lot of statistical problems

814

00:36:48,630 --> 00:36:45,359

out of it

815

00:36:51,109 --> 00:36:48,640

uh i've got a study that we did on

816

00:36:53,030 --> 00:36:51,119

championship head coaches

817

00:36:56,870 --> 00:36:53,040

in american football

818

00:36:58,390 --> 00:36:56,880

where we worked from a complete data set

819

00:37:01,030 --> 00:36:58,400

of all the

820

00:37:02,950 --> 00:37:01,040

coaches who had worked as head coaches

821

00:37:04,950 --> 00:37:02,960

in the american football league

822

00:37:07,190 --> 00:37:04,960

and were able to sort out the ones who'd

823

00:37:08,390 --> 00:37:07,200

actually won championships from the ones

824

00:37:11,829 --> 00:37:08,400

who never

825

00:37:13,430 --> 00:37:11,839

won championships and um

826

00:37:16,150 --> 00:37:13,440

got extreme

827

00:37:18,870 --> 00:37:16,160

variance between the two data sets now

828

00:37:20,630 --> 00:37:18,880

now kioski ran p values on them and they

829

00:37:22,550 --> 00:37:20,640

were very significant but with complete

830

00:37:23,990 --> 00:37:22,560

data sets

831

00:37:26,470 --> 00:37:24,000

you know that's not even entirely

832

00:37:29,270 --> 00:37:26,480

necessary and again extreme uh

833

00:37:31,910 --> 00:37:29,280

differences in signs planet planetary

834

00:37:34,150 --> 00:37:31,920

positions in tropical signs

835

00:37:37,430 --> 00:37:34,160

and of course we ran them in several

836

00:37:40,150 --> 00:37:37,440

different zodiacs uh including the

837

00:37:42,870 --> 00:37:40,160

sidereal lahiri ionasha which is the

838

00:37:44,550 --> 00:37:42,880

most common one used in vedic astrology

839

00:37:45,829 --> 00:37:44,560

and uh got some really interesting

840

00:37:49,430 --> 00:37:45,839

results there and we were able to

841

00:37:52,310 --> 00:37:49,440

replicate it using um basketball coaches

842

00:37:53,670 --> 00:37:52,320

mba head coaches uh doing doing exactly

843

00:37:55,910 --> 00:37:53,680

the same thing and it is fascinating

844

00:37:57,990 --> 00:37:55,920

because we got very similar results and

845

00:38:01,030 --> 00:37:58,000

yet would slight differences as you

846

00:38:02,470 --> 00:38:01,040

would expect because these are you know

847

00:38:05,270 --> 00:38:02,480

different jobs and different types of

848

00:38:07,270 --> 00:38:05,280

personalities so i think um

849

00:38:09,190 --> 00:38:07,280

you know the future looks looks pretty

850

00:38:10,870 --> 00:38:09,200

good with the research again i know it's

851

00:38:12,790 --> 00:38:10,880

it's almost overwhelming it's so

852

00:38:15,190 --> 00:38:12,800

daunting and yet there are ways to

853

00:38:18,870 --> 00:38:15,200

simplify it and i think to break it down

854

00:38:19,910 --> 00:38:18,880

and that's that's just one example

855

00:38:21,190 --> 00:38:19,920

yeah that

856

00:38:23,430 --> 00:38:21,200

seems to be a good

857

00:38:25,750 --> 00:38:23,440

one one good approach to have these

858

00:38:29,829 --> 00:38:25,760

complete

859

00:38:32,150 --> 00:38:29,839

data sets of and then you can easily

860

00:38:35,190 --> 00:38:32,160

also compare it to other ones but not

861

00:38:38,390 --> 00:38:35,200

every uh astrological research question

862

00:38:40,790 --> 00:38:38,400

can be dealt with us in this easy way

863

00:38:42,710 --> 00:38:40,800

and one actually had to go into the

864

00:38:45,109 --> 00:38:42,720

details so

865

00:38:46,790 --> 00:38:45,119

without knowing the details it's hard to

866

00:38:49,430 --> 00:38:46,800

to give an

867

00:38:51,510 --> 00:38:49,440

assessment of the quality but i think

868

00:38:54,069 --> 00:38:51,520

that this looks like

869

00:38:55,910 --> 00:38:54,079

being a fine study yes

870

00:38:57,910 --> 00:38:55,920

yeah and i i think in in the course of

871

00:38:59,990 --> 00:38:57,920

my research i've i'm really not

872

00:39:02,790 --> 00:39:00,000

interested in improving whether

873

00:39:03,990 --> 00:39:02,800

astrologers can do what they claim they

874

00:39:04,870 --> 00:39:04,000

can do

875

00:39:07,270 --> 00:39:04,880

um

876

00:39:11,030 --> 00:39:07,280

frankly as a as after a lifetime in

877

00:39:12,710 --> 00:39:11,040

astrology most of them can't um but to

878

00:39:13,750 --> 00:39:12,720

demonstrate

879

00:39:16,390 --> 00:39:13,760

um

880

00:39:18,230 --> 00:39:16,400

the reality of some kind of planetary

881

00:39:20,230 --> 00:39:18,240

influence

882

00:39:21,829 --> 00:39:20,240

for me that's the research question and

883

00:39:23,829 --> 00:39:21,839

that's what's led me

884

00:39:25,510 --> 00:39:23,839

in those directions so thank you again

885

00:39:27,270 --> 00:39:25,520

for your work it's really fascinating

886

00:39:29,910 --> 00:39:27,280

and i look forward to to reading your

887

00:39:35,670 --> 00:39:32,870

all right thank you for your uh comments

888

00:39:38,550 --> 00:39:35,680

courtney um i have a couple well at

889

00:39:41,829 --> 00:39:38,560

least one question in the q a hold on i

890

00:39:43,670 --> 00:39:41,839

gotta get on the right screen here

891

00:39:47,030 --> 00:39:43,680

and this question

892

00:39:48,950 --> 00:39:47,040

comes from nuzi hanif

893

00:39:51,510 --> 00:39:48,960

and she is asking is there any

894

00:39:54,790 --> 00:39:51,520

difference in how amenable

895

00:39:58,950 --> 00:39:54,800

vedic astrology is to scientific study

896

00:40:01,750 --> 00:39:58,960

as opposed to western astrology

897

00:40:04,790 --> 00:40:01,760

i think the problems are the very same

898

00:40:07,510 --> 00:40:04,800

but i have to confess that i don't

899

00:40:08,870 --> 00:40:07,520

know much about vedic astrology i mean

900

00:40:10,710 --> 00:40:08,880

it's a different

901
00:40:12,390 --> 00:40:10,720
in a way a different knowledge

902
00:40:13,750 --> 00:40:12,400
system

903
00:40:15,270 --> 00:40:13,760
but the

904
00:40:16,790 --> 00:40:15,280
problem are

905
00:40:19,109 --> 00:40:16,800
seem to me

906
00:40:23,670 --> 00:40:19,119
for me to be the very same so

907
00:40:26,150 --> 00:40:23,680
that is also applicable on to that so

908
00:40:27,670 --> 00:40:26,160
okay and then carl asked me a question

909
00:40:29,510 --> 00:40:27,680
in chat

910
00:40:31,349 --> 00:40:29,520
hey uh i'm not sure if i understand the

911
00:40:32,950 --> 00:40:31,359
question but maybe you will uh he says

912
00:40:35,349 --> 00:40:32,960
hi annalisa could you ask garehart to

913
00:40:39,030 --> 00:40:35,359

talk about or describe just what the

914

00:40:42,150 --> 00:40:39,040

symbolic symbolic and all caps symbolic

915

00:40:45,030 --> 00:40:43,589

the sim

916

00:40:46,390 --> 00:40:45,040

symbolic

917

00:40:47,829 --> 00:40:46,400

of

918

00:40:51,270 --> 00:40:47,839

astrology or

919

00:40:54,390 --> 00:40:51,280

the symbolic thing means it's um

920

00:40:57,589 --> 00:40:54,400

i'm i don't know

921

00:41:01,109 --> 00:40:57,599

oh in this description

922

00:41:04,309 --> 00:41:01,119

the symbolic in this description

923

00:41:07,030 --> 00:41:04,319

description that you used

924

00:41:09,349 --> 00:41:07,040

in your text

925

00:41:12,550 --> 00:41:09,359

how i use the term symbolic

926
00:41:14,550 --> 00:41:12,560
or a symbol system

927
00:41:16,790 --> 00:41:14,560
i mean

928
00:41:20,870 --> 00:41:16,800
we have a

929
00:41:22,030 --> 00:41:20,880
with astrology

930
00:41:25,510 --> 00:41:22,040
where

931
00:41:28,550 --> 00:41:26,630
some

932
00:41:31,270 --> 00:41:28,560
external

933
00:41:32,790 --> 00:41:31,280
elements are

934
00:41:34,790 --> 00:41:32,800
loaded up with

935
00:41:35,589 --> 00:41:34,800
symbolic meaning so

936
00:41:41,109 --> 00:41:35,599
we

937
00:41:42,309 --> 00:41:41,119
means and that our attributions that are

938
00:41:44,790 --> 00:41:42,319

work that

939

00:41:45,670 --> 00:41:44,800

and the mars and venus became a symbol

940

00:41:47,670 --> 00:41:45,680

for

941

00:41:51,750 --> 00:41:47,680

certain

942

00:41:54,069 --> 00:41:51,760

content so to say and the symbol you can

943

00:41:55,990 --> 00:41:54,079

then relate this symbol to different

944

00:41:58,069 --> 00:41:56,000

contents you can

945

00:42:00,829 --> 00:41:58,079

relate a

946

00:42:04,550 --> 00:42:00,839

symbol of mars to

947

00:42:07,510 --> 00:42:04,560

psychological issues you can also use it

948

00:42:10,710 --> 00:42:07,520

on on a physiological level like it is

949

00:42:11,349 --> 00:42:10,720

related to to the blood or to iron on on

950

00:42:17,109 --> 00:42:11,359

a

951
00:42:19,990 --> 00:42:17,119
to

952
00:42:21,829 --> 00:42:20,000
approach something or recursivity or

953
00:42:25,109 --> 00:42:21,839
something like that so

954
00:42:26,870 --> 00:42:25,119
the symbol is applicable applicable to to

955
00:42:28,710 --> 00:42:26,880
different

956
00:42:31,430 --> 00:42:28,720
layers of

957
00:42:33,430 --> 00:42:31,440
reality and experience i don't know if i

958
00:42:34,710 --> 00:42:33,440
answered the questions with the question

959
00:42:36,870 --> 00:42:34,720
but

960
00:42:38,390 --> 00:42:36,880
another time

961
00:42:39,990 --> 00:42:38,400
okay and then this is going to be the

962
00:42:41,990 --> 00:42:40,000
last one i have i have another raised

963
00:42:43,510 --> 00:42:42,000

hand and this one is uh philip brown so

964

00:42:44,870 --> 00:42:43,520

we're going to hand him the mic hey

965

00:42:46,790 --> 00:42:44,880

gerard

966

00:42:48,630 --> 00:42:46,800

hi

967

00:42:51,109 --> 00:42:48,640

a general question and a specific

968

00:42:54,630 --> 00:42:53,270

so my my general question is how

969

00:42:56,950 --> 00:42:54,640

sensitive

970

00:42:58,870 --> 00:42:56,960

is a birth chart

971

00:43:00,470 --> 00:42:58,880

to the time of birth

972

00:43:02,470 --> 00:43:00,480

if you don't know the exact time of

973

00:43:04,230 --> 00:43:02,480

birth but you know we say within half an

974

00:43:05,910 --> 00:43:04,240

hour or an hour

975

00:43:08,150 --> 00:43:05,920

okay will it make a big difference to

976
00:43:10,470 --> 00:43:08,160
the birth child if you don't know the

977
00:43:11,270 --> 00:43:10,480
exact time

978
00:43:13,109 --> 00:43:11,280
it

979
00:43:16,309 --> 00:43:13,119
makes in so far a

980
00:43:17,589 --> 00:43:16,319
difference that you cannot um

981
00:43:19,910 --> 00:43:17,599
make such an

982
00:43:23,349 --> 00:43:19,920
accurate interpretation of the burst

983
00:43:25,589 --> 00:43:23,359
chart several elements remain the same

984
00:43:26,950 --> 00:43:25,599
even if the birth time

985
00:43:29,430 --> 00:43:26,960
changes

986
00:43:32,230 --> 00:43:29,440
but for example s and then can change

987
00:43:34,150 --> 00:43:32,240
and that is a rather important element

988
00:43:39,430 --> 00:43:34,160

and all so

989

00:43:44,150 --> 00:43:41,750

things happen more likely than in other

990

00:43:46,069 --> 00:43:44,160

areas that can change but

991

00:43:48,390 --> 00:43:46,079

for example

992

00:43:51,430 --> 00:43:48,400

if somebody is more an introvert or

993

00:43:53,670 --> 00:43:51,440

extrovert person or some

994

00:43:55,829 --> 00:43:53,680

more basic characteristics of

995

00:43:57,910 --> 00:43:55,839

personality that will

996

00:44:00,150 --> 00:43:57,920

remain the same

997

00:44:02,470 --> 00:44:00,160

there it makes no difference if uh you

998

00:44:05,190 --> 00:44:02,480

don't have the exact birth time

999

00:44:11,190 --> 00:44:08,710

right my second question is i'm curious

1000

00:44:12,470 --> 00:44:11,200

about the resemblance

1001
00:44:16,069 --> 00:44:12,480
of the glyph

1002
00:44:18,870 --> 00:44:16,079
the symbol for the planet saturn

1003
00:44:21,430 --> 00:44:18,880
and the symbol for planck's constant and

1004
00:44:23,109 --> 00:44:21,440
also the number five

1005
00:44:25,190 --> 00:44:23,119
it was something that came up in my in

1006
00:44:28,069 --> 00:44:25,200
my own research on the

1007
00:44:29,990 --> 00:44:28,079
on the fine structure constant

1008
00:44:31,109 --> 00:44:30,000
do you have any idea why why there is

1009
00:44:34,790 --> 00:44:31,119
this

1010
00:44:36,069 --> 00:44:34,800
similarity of these particular symbols

1011
00:44:37,190 --> 00:44:36,079
yeah

1012
00:44:54,710 --> 00:44:37,200
i

1013
00:44:56,230 --> 00:44:54,720

have the grass that means the earth and

1014

00:44:58,390 --> 00:44:56,240

then

1015

00:45:01,190 --> 00:44:58,400

the other thing is i think it's the moon

1016

00:45:03,109 --> 00:45:01,200

then combined i'm i'm not so

1017

00:45:06,710 --> 00:45:03,119

into that maybe other people in the

1018

00:45:07,829 --> 00:45:06,720

round can give you more information

1019

00:45:09,430 --> 00:45:07,839

you can see that's a little bit like

1020

00:45:11,670 --> 00:45:09,440

that yeah

1021

00:45:14,390 --> 00:45:11,680

but it's it's certainly no accident and

1022

00:45:18,069 --> 00:45:14,400

the five is the pentangle and you know

1023

00:45:20,150 --> 00:45:18,079

that it's also related to the i think

1024

00:45:21,670 --> 00:45:20,160

to the material we are but

1025

00:45:24,390 --> 00:45:21,680

yeah

1026

00:45:26,309 --> 00:45:24,400

i um

1027

00:45:28,150 --> 00:45:26,319

i am not an expert in this there are

1028

00:45:29,670 --> 00:45:28,160

certainly other people in the round that

1029

00:45:31,670 --> 00:45:29,680

i can