



1
00:00:04,460 --> 00:00:02,690
lists but the question about the

2
00:00:07,490 --> 00:00:04,470
fluctuation in the background radiation

3
00:00:09,440 --> 00:00:07,500
is the current explanation for why that

4
00:00:10,910 --> 00:00:09,450
galaxies over there yes yes right and

5
00:00:13,700 --> 00:00:10,920
this one's over here and there was a

6
00:00:16,430 --> 00:00:13,710
literal conversion experience in 1990

7
00:00:18,320 --> 00:00:16,440
when the Cobie data was presented at

8
00:00:29,450 --> 00:00:18,330
that meeting in Florida and they all of

9
00:00:37,880 --> 00:00:33,740
as you stated randomness is an

10
00:00:42,319 --> 00:00:37,890
assumption that most scientists just

11
00:00:44,479 --> 00:00:42,329
take for granted and get you and a few

12
00:00:47,750 --> 00:00:44,489
others including myself seriously

13
00:00:50,149 --> 00:00:47,760

question that assumption how is it that

14

00:00:52,130 --> 00:00:50,159

you have come to that conclusion if you

15

00:00:54,560 --> 00:00:52,140

can tell us briefly and what

16

00:00:56,750 --> 00:00:54,570

significance does that have for the

17

00:01:02,139 --> 00:00:56,760

evolution of the framework that you're

18

00:01:08,690 --> 00:01:05,299

well first of all quantum randomness has

19

00:01:12,919 --> 00:01:08,700

been the most controversial kind of

20

00:01:14,419 --> 00:01:12,929

thing contained in the quantum

21

00:01:15,770 --> 00:01:14,429

measurement problem since the beginning

22

00:01:18,529 --> 00:01:15,780

even the founders didn't like it very

23

00:01:23,090 --> 00:01:18,539

much and yet it works so so very well

24

00:01:27,680 --> 00:01:23,100

but I was I guess first started thinking

25

00:01:28,969 --> 00:01:27,690

about this by some physicists the one

26

00:01:30,770 --> 00:01:28,979

that comes to mind it might not have

27

00:01:33,080 --> 00:01:30,780

been the first that I read but anyway

28

00:01:36,980 --> 00:01:33,090

surf and adame Nicholas surf and Chris

29

00:01:40,840 --> 00:01:36,990

Adami at Caltech wrote a paper about

30

00:01:43,609 --> 00:01:40,850

this that's been widely ignored and

31

00:01:47,240 --> 00:01:43,619

there are some other justifications for

32

00:01:49,490 --> 00:01:47,250

it in purely quantum theory terms so

33

00:01:52,370 --> 00:01:49,500

that got me started then I started to

34

00:01:54,709 --> 00:01:52,380

think about it more and look at the

35

00:01:56,569 --> 00:01:54,719

evidence from sigh for backwards

36

00:01:59,359 --> 00:01:56,579

causation and for backwards causation

37

00:02:01,279 --> 00:01:59,369

this suddenly solves the problem so it

38

00:02:03,260 --> 00:02:01,289

clicked together for me and the more I

39

00:02:05,270 --> 00:02:03,270

look the more I see evidence that things

40

00:02:08,240 --> 00:02:05,280

are symmetrical in time preparation

41

00:02:10,370 --> 00:02:08,250

measurement exactly symmetrical if you

42

00:02:15,199 --> 00:02:10,380

think about that for a while and I think

43

00:02:17,180 --> 00:02:15,209

you have a lot of things clear up okay

44

00:02:19,280 --> 00:02:17,190

unfortunately we're out of time for