

1
00:00:00,000 --> 00:00:04,469
lists but the question about the

2
00:00:02,700 --> 00:00:07,500
fluctuation in the background radiation

3
00:00:04,469 --> 00:00:09,449
is the current explanation for why that

4
00:00:07,500 --> 00:00:10,919
galaxies over there yes yes right and

5
00:00:09,449 --> 00:00:13,709
this one's over here and there was a

6
00:00:10,919 --> 00:00:16,439
literal conversion experience in 1990

7
00:00:13,710 --> 00:00:18,330
when the Cobie data was presented at

8
00:00:16,440 --> 00:00:21,500
that meeting in Florida and they all of

9
00:00:18,329 --> 00:00:21,500
a sudden became big bangers

10
00:00:29,460 --> 00:00:37,890
as you stated randomness is an

11
00:00:33,750 --> 00:00:42,329
assumption that most scientists just

12
00:00:37,890 --> 00:00:44,489
take for granted and get you and a few

13
00:00:42,329 --> 00:00:47,759
others including myself seriously

14
00:00:44,488 --> 00:00:50,158
question that assumption how is it that

15
00:00:47,759 --> 00:00:52,140
you have come to that conclusion if you

16
00:00:50,158 --> 00:00:54,570
can tell us briefly and what

17
00:00:52,140 --> 00:00:56,759
significance does that have for the

18
00:00:54,570 --> 00:01:00,738
evolution of the framework that you're

19
00:00:56,759 --> 00:01:00,738
taking how did I get to the dark side

20
00:01:02,149 --> 00:01:08,700
well first of all quantum randomness has

21
00:01:05,308 --> 00:01:12,929
been the most controversial kind of

22
00:01:08,700 --> 00:01:14,429
thing contained in the quantum

23
00:01:12,929 --> 00:01:15,780
measurement problem since the beginning

24
00:01:14,429 --> 00:01:18,539
even the founders didn't like it very

25
00:01:15,780 --> 00:01:23,099
much and yet it works so so very well

26
00:01:18,539 --> 00:01:27,689
but I was I guess first started thinking

27
00:01:23,099 --> 00:01:28,978
about this by some physicists the one

28
00:01:27,689 --> 00:01:30,780
that comes to mind it might not have

29

00:01:28,978 --> 00:01:33,090
been the first that I read but anyway

30
00:01:30,780 --> 00:01:36,989
surf and adame Nicholas surf and Chris

31
00:01:33,090 --> 00:01:40,850
Adami at Caltech wrote a paper about

32
00:01:36,989 --> 00:01:43,618
this that's been widely ignored and

33
00:01:40,849 --> 00:01:47,250
there are some other justifications for

34
00:01:43,618 --> 00:01:49,500
it in purely quantum theory terms so

35
00:01:47,250 --> 00:01:52,379
that got me started then I started to

36
00:01:49,500 --> 00:01:54,718
think about it more and look at the

37
00:01:52,379 --> 00:01:56,578
evidence from sigh for backwards

38
00:01:54,718 --> 00:01:59,368
causation and for backwards causation

39
00:01:56,578 --> 00:02:01,288
this suddenly solves the problem so it

40
00:01:59,368 --> 00:02:03,269
clicked together for me and the more I

41
00:02:01,289 --> 00:02:05,280
look the more I see evidence that things

42
00:02:03,269 --> 00:02:08,250
are symmetrical in time preparation

43
00:02:05,280 --> 00:02:10,379

measurement exactly symmetrical if you

44

00:02:08,250 --> 00:02:15,209

think about that for a while and I think

45

00:02:10,379 --> 00:02:17,189

you have a lot of things clear up okay

46

00:02:15,209 --> 00:02:19,289

unfortunately we're out of time for

47

00:02:17,189 --> 00:02:21,859

questions or discussion so let's thank

48

00:02:19,289 --> 00:02:21,858

our speaker