



and it tells you there

and

here

1
00:00:03,470 --> 00:00:01,730
we actually have some data that we can

2
00:00:05,870 --> 00:00:03,480
use to figure out the distribution of

3
00:00:08,509 --> 00:00:05,880
some kinds of aliens in space-time you

4
00:00:10,730 --> 00:00:08,519
just have to be clever about it so we

5
00:00:13,370 --> 00:00:10,740
have a three parameter model and each of

6
00:00:14,270 --> 00:00:13,380
those parameters is fit to concrete data

7
00:00:17,090 --> 00:00:14,280
we have

8
00:00:19,490 --> 00:00:17,100
and so the story is then we know this

9
00:00:21,650 --> 00:00:19,500
model roughly it's a stochastic model of

10
00:00:23,210 --> 00:00:21,660
where aliens are in space time and we

11
00:00:26,150 --> 00:00:23,220
say we kind of have to believe it

12
00:00:28,250 --> 00:00:26,160
because of another key datum which is

13
00:00:30,950 --> 00:00:28,260

that we're early in the history of the

14

00:00:33,590 --> 00:00:30,960

universe and so the the date on the

15

00:00:35,330 --> 00:00:33,600

clock is a key piece of data and it

16

00:00:36,830 --> 00:00:35,340

tells you there are aliens out there

17

00:00:39,590 --> 00:00:36,840

right now

18

00:00:40,970 --> 00:00:39,600

and using these other pieces of data we

19

00:00:42,889 --> 00:00:40,980

can get the distribution in space time

20

00:00:44,630 --> 00:00:42,899

so I I know when you're hearing this

21

00:00:46,549 --> 00:00:44,640

you're going that can't be right but

22

00:00:48,889 --> 00:00:46,559

it's being as clever as those ancient

23

00:00:51,830 --> 00:00:48,899

Greeks did to figure out

24

00:00:53,810 --> 00:00:51,840

how far away the Sun is from just

25

00:00:55,369 --> 00:00:53,820

you know a few pieces of info you

