

1  
00:00:00,000 --> 00:00:09,710  
might be able to capture dark matter um

2  
00:00:04,490 --> 00:00:12,599  
okay i love these multi-part questions I

3  
00:00:09,710 --> 00:00:14,160  
am NOT trying to make a case that the

4  
00:00:12,599 --> 00:00:17,789  
Tunguska blast was an antimatter

5  
00:00:14,160 --> 00:00:19,649  
explosion I simply wished to point to it

6  
00:00:17,789 --> 00:00:22,170  
as an example of the type of event we're

7  
00:00:19,649 --> 00:00:25,439  
looking at in terms of neutrino

8  
00:00:22,170 --> 00:00:27,720  
detection that is constrained by a

9  
00:00:25,439 --> 00:00:31,259  
particle interaction cross sections

10  
00:00:27,719 --> 00:00:33,509  
which at the moment we have no idea how

11  
00:00:31,260 --> 00:00:36,120  
to manipulate and there may in fact be

12  
00:00:33,509 --> 00:00:41,399  
no way even in principle to manipulate

13  
00:00:36,119 --> 00:00:44,789  
them I i I'm sorry but I managed to lose

14  
00:00:41,399 --> 00:00:48,270  
the third part of the question Oh dark

15  
00:00:44,789 --> 00:00:51,210  
matter uh we don't know what dark matter

16  
00:00:48,270 --> 00:00:53,370  
is but whatever it is it presumably

17  
00:00:51,210 --> 00:00:55,640  
shares the properties of neutrinos and

18  
00:00:53,369 --> 00:00:59,608  
having very low interaction

19  
00:00:55,640 --> 00:01:01,948  
cross-sections therefore being able to

20  
00:00:59,609 --> 00:01:04,079  
tap it for energy looks like an

21  
00:01:01,948 --> 00:01:06,329  
exceedingly remote prospect at this time

22  
00:01:04,079 --> 00:01:08,099  
I always bend the rules a little bit

23  
00:01:06,329 --> 00:01:16,228  
when younger people want to participate

24  
00:01:08,099 --> 00:01:18,419  
so we have one more question I was

25  
00:01:16,228 --> 00:01:23,310  
wondering how you would capture those

26  
00:01:18,420 --> 00:01:27,540  
particles to reuse them to get energy to

27  
00:01:23,310 --> 00:01:32,219  
use the other particles for more energy

28  
00:01:27,540 --> 00:01:35,368  
does that make sense uh okay how do we

29

00:01:32,219 --> 00:01:37,530  
have how do we actually do the capture

30  
00:01:35,368 --> 00:01:42,209  
and reprocessing that I refer to so

31  
00:01:37,530 --> 00:01:44,849  
glibly um the the answer is that that

32  
00:01:42,209 --> 00:01:46,589  
this is where I wave my hands with the

33  
00:01:44,849 --> 00:01:49,709  
phrase of sufficiently advanced

34  
00:01:46,590 --> 00:01:52,380  
technology we know that it's physically

35  
00:01:49,709 --> 00:01:54,030  
possible in principle we don't know how

36  
00:01:52,379 --> 00:01:59,429  
to actually build the machine or we'd be

37  
00:01:54,030 --> 00:02:00,719  
flying these things right now thank you

38  
00:01:59,430 --> 00:02:02,780  
very much

39  
00:02:00,719 --> 00:02:02,780  
you