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APPROPRIATE SCIENCE AUDIENCES
BY NASA'S GODDARD SPACE FLIGHT CENTER



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1
00:00:00,020 --> 00:00:04,040
[No Audio]

2
00:00:12,100 --> 00:00:08,090
[Bwaaam]

3
00:00:12,120 --> 00:00:16,130
[Bwaaam] When we started watching it, we

4
00:00:16,150 --> 00:00:20,170
had no idea how dynamic this system was. [Music]

5
00:00:20,190 --> 00:00:24,180
[Music]

6
00:00:24,200 --> 00:00:28,230
We still don't know what it's capable of. [Whoosh]

7
00:00:28,250 --> 00:00:32,260
[Bwaaam] The only way these readings make

8
00:00:32,280 --> 00:00:36,320
sense is if this pulsar is orbiting a star.

9
00:00:36,340 --> 00:00:40,320
We've never seen one in an orbit this long. The binary

10
00:00:40,340 --> 00:00:44,340
companion is one of the brightest stars in our galaxy, and the pulsar is going to

11
00:00:44,360 --> 00:00:48,410
pass incredibly close to it! This pulsar has been

12
00:00:48,430 --> 00:00:52,430
accelerating for the last ten years, and it's still speeding up.

13
00:00:52,450 --> 00:00:56,520

[Bwaam]

14

00:00:56,540 --> 00:01:00,550

When it passes through the companion star's disk, we're gonna see some serious

15

00:01:00,570 --> 00:01:04,600

gamma-ray emission. Fermi will be watching in

16

00:01:04,620 --> 00:01:08,660

gamma rays. It has the tools.

17

00:01:16,760 --> 00:01:12,710

[Music]

18

00:01:16,780 --> 00:01:20,820

There's so much we can learn from this.

19

00:01:20,840 --> 00:01:24,860

[Music]

20

00:01:24,880 --> 00:01:28,880

[Wwraum]

21

00:01:28,900 --> 00:01:32,920

We're going to need a bigger hard drive

22

00:01:32,940 --> 00:01:36,990

[Wwraum] [indistinct radio voices]

23

00:01:37,010 --> 00:01:41,030

[indistinct radio voices]