

Episode 5



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■
So now that you've learned all about big black holes, and small black holes, and social black holes, and not-so-social ones,

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00:00:06,750 --> 00:00:09,083

you're probably wondering, "What's left?"

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Well, while we've talked a lot about COMMON black hole situations, there are always records to be broken!

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For example, the biggest black hole we know of is truly massive, being 40 billion times the mass of the Sun,

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and the smallest one could be only two and a half times the Sun's mass.

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There's even a "spinniest" black hole that spins at over 1,000 times per second. Adorable!

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Next, depending on what planet you're from, there are also "closest" and "farthest" to think about.

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For example, if you live on Earth, the closest known black hole is about 3,000 light-years away.

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On the other hand, the farthest known black hole is about 13 billion light years away.

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Although, um, what that really means is that light from near that black hole took 13 billion years to reach us,

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and because the universe is constantly expanding ...
that means now it's ... um ... well, it, um ...

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In any case, it's still "farthest known." Let's move on!

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If you're feeling more adventurous, there are also some
rarer black holes to be found – assuming some of them even exist, that is!

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00:01:03,416 --> 00:01:09,666

For example, while we do know about small and big black holes,
we've only found a few that that fit ... somewhere in between.

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00:01:09,666 --> 00:01:16,416

It's also possible that tiny black holes may have formed back at the
beginning of the universe when everything was just really packed together.

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However, even if they did exist, we definitely haven't detected them yet.

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And finally, we'd love to catch two giant black holes crashing into
each other because, well, we just haven't seen that yet!

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00:01:26,833 --> 00:01:31,083

So, if extreme adventures and rare finds are on the top of
your black hole-watching list,

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00:01:31,083 --> 00:01:34,916

grab your rocket ship – or your favorite observatory - and start searching!