

PŘEČTĚTE SI SÓLOKAPRY Z VESMÍRU

ZPRÁVY Z CELÉHO VESMÍRU



Not Your Average Superhero

30. dubna 2012

A black hole is formed when a massive star is squashed into an incredibly tiny volume. (The equivalent of squeezing the Earth into the size of a marble!) Packing so much material in such a small space gives black holes a superpower: Incredibly strong gravity that can even swallow-up light forever if it gets too close!

Around the danger zone, before disappearing forever into the black hole, any nearby material is accelerated to very high speeds. This fast-moving material gives off X-rays, which astronomers can observe using special telescopes in space.

Of course, there should be a limit to even a superhero's powers. But in recent years, astronomers have discovered regions around black holes that are giving off a crazy amount of X-rays – a lot more than what should be possible. In the galaxy pictured above, which is called M83, astronomers have discovered such a weirdly powerful black hole.

Astronomers still don't fully understand what is making these black holes mega-powerful, but it could be that they are much heavier than normal black holes. A heavy black hole could pull in more material than a smaller black hole, which would make a lot more X-rays. Instead of being a few times heavier than the Sun, like normal black holes, the mega-powerful ones could be up to 100 times heavier!

▲ COOL FACT!

The black hole in the galaxy M83 is now producing 3000 times more X-rays than it had been before it became mega-powerful!