

# Jetty McJetface: One of the most powerful explosions in the universe.

The black hole AT2018hyz emits an extremely powerful 'Jetty McJetface' jet after swallowing a star, its energy continuously increasing.

Scientists say a stream of energy emanating from a previously studied supermassive black hole is becoming brighter and stronger over time, making it one of the most energetic phenomena in the universe.

This jet of energy has been nicknamed '**Jetty McJetface**'. It originates from the black hole **AT2018hyz**, which was discovered in 2018 after it swallowed a passing star. The black hole's immense gravitational pull tore apart the star in a process called '**spaghettification**' (the stretching of matter into a noodle-like form). During this process, the black hole released a powerful jet of energy.



Remarkably, nearly four years after the 'star-swallowing' event, this beam of light has not weakened but has actually become stronger.

According to astrophysicist **Yvette Cendes** (University of Oregon), who led the study published on February 5 in *The Astrophysical Journal* :

'This phenomenon is truly unusual. It's very rare to see an event where energy gradually increases and lasts for such a long period of time.'

**The phenomenon of "noodle transformation" has never generated such powerful energy.**



Scientists have previously observed numerous instances of a star being torn apart by a black hole when it got too close. However, the energy level recorded by Jetty McJeface this time is unprecedented.

Analysis of the radio waves emitted from the beam revealed:

1. The black hole is now about 50 times brighter **than it was in 2019**.
2. The energy output is at least **a trillion times greater than** that of the 'Death Star' Battle Station in the *Star Wars* films.

New predictive models suggest that the intensity of radio waves from black holes will continue to increase exponentially and could peak in **2027** .

**Why weren't the stars visible before?**



The research team suggests that radiation from the torn-apart star may be being blown in a single direction, and that direction is most likely **not toward Earth** . This could explain why astronomers initially did not clearly observe the star near the black hole.

However, scientists say more data is needed to confirm this hypothesis.

## What does the name 'Jetty McJetface' mean?

This nickname is a play on words, inspired by the famous British research vessel 'Boaty McBoatface', which was chosen as the name in an online survey about 10 years ago.

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