

# Hubble catches dusty detail in elliptical galaxy NGC 2768

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Credit: ESA/NASA, Hubble

(Phys.org) —The soft glow in this image is NGC 2768, an elliptical galaxy located in the northern constellation of Ursa Major (The Great Bear). NGC 2768 appears here as a bright oval on the sky, surrounded by a wide, fuzzy cloud of material.

This image, taken by the NASA/ESA [Hubble Space Telescope](#), shows the dusty structure encircling the center of the galaxy, forming a knotted ring around the galaxy's brightly glowing middle. Interestingly, this ring lies perpendicular to the plane of NGC 2768 itself, stretching up and out of the galaxy.

The dust in NGC 2768 forms an intricate network of knots and filaments. In the center of the galaxy are two tiny, S-shaped symmetric jets. These two flows of material travel outwards from the galactic center along curved paths, and are masked by the tangle of dark dust lanes that spans the body of the galaxy.

These jets are a sign of a very active center. NGC 2768 is an example of a Seyfert galaxy, an object with a [supermassive black hole](#) at its center. This speeds up and sucks in gas from the nearby space, creating a stream of material swirling inwards towards the black hole known as an [accretion disk](#). This disk throws off material in very energetic outbursts, creating structures like the jets seen in the image above.

Provided by European Space Agency

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