



**Chandra X-ray
Observatory Center**

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Markarian 1018: An active galaxy located about 590 million light years from Earth.
(Credit: X-ray: NASA/CXC/Univ of Sydney/R.McElroy et al, Optical: ESO/CARS Survey)

Caption: Astronomers may have solved the mystery of the peculiar volatile behavior of a supermassive black hole at the center of a galaxy. This image shows data from Chandra (right) and the Very Large Telescope (left) of Markarian 1018. Data from these and other telescopes suggest that the supermassive black hole within this galaxy is no longer being fed enough fuel to make its surroundings shine brightly.

Scale: Main image is 2.64 arcmin across (about 440,000 light years)

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory
