



**Chandra X-ray
Observatory Center**

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GSN 069: A galaxy containing a supermassive black hole about 250,000 light years from Earth.
(Credit: X-ray: NASA/CXO/CSIC-INTA/G.Miniutti et al.; Optical: DSS)

Caption: Data from Chandra and XMM-Newton, taken over a span of 54 days, revealed that a supermassive black hole is blasting out X-rays about every nine hours. This indicates that this black hole, containing about 400,000 solar masses, is consuming significant amounts of material about three times per day. This is the first time such repetitive behavior has been seen in a supermassive black hole. The main panel of this graphic is a DSS visible light image around the galaxy known as GSN 069. The box at the center shows Chandra data taken on February 14 and 15, 2019.

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory
