



**Chandra X-ray  
Observatory Center**

Harvard-Smithsonian Center for Astrophysics  
60 Garden St. Cambridge, MA 02138 USA  
<http://chandra.harvard.edu>

**NGC 4194:** Also known as Medusa, this galaxy lies about 110 million light years away  
(Credit: X-ray: NASA/CXC/Univ of Iowa/P.Kaaret et al.; Optical: NASA/ESA/STScI/Univ of Iowa/P.Kaaret et al.)

**Caption:** This image of NGC 4194 is a composite of X-rays from Chandra (blue) and optical light data from Hubble (orange). Located above the center of the galaxy, the "hair" of the Medusa is a tidal tail formed by a collision between galaxies. The bright X-ray source found on the left side of Medusa's hair is a black hole. A recent study of the Medusa galaxy and nine other galaxies measured the correlation between the formation of stars and the production of X-ray binaries. These X-ray binaries appear as the bright blue point-like sources in this image of Medusa.

**Scale:** Image is 2.5 arcmin across.

*Chandra X-ray Observatory ACIS Image*

*CXC operated for NASA by the Smithsonian Astrophysical Observatory*