



**Chandra X-ray
Observatory Center**

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

Perseus A: The central region of a rich galaxy cluster about 250 million light years from Earth
(Credit: X-ray: NASA/CXC/IoA/A.Fabian et al.; Radio: NRAO/VLA/G. Taylor; Optical: NASA/ESA/Hubble Heritage)

Caption: The active galaxy NGC 1275 lies at the center of the cluster of galaxies known as the Perseus Cluster. By combining multi-wavelength images into a single composite, the dynamics of the galaxy are more easily visible. In this composite image, X-rays from Chandra are shown in violet and reveal the presence of a black hole at the center of NGC 1275. Optical data from Hubble is depicted in red, green, and blue, and radio emission in pink traces the jets generated from the central black hole.

Scale: Image is 3.87 arcmin across.

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory