



**Chandra X-ray  
Observatory Center**

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**Coma Cluster:** A galaxy cluster located about 320 million light years from Earth.  
(Credit: X-ray: NASA/CXC/Univ. of Chicago, I. Zhuravleva et al, Optical: SDSS)

**Caption:** This image represents a deep Chandra dataset of the Coma galaxy cluster, which researchers used to study how the hot gas in the cluster behaves. They found the hot gas in Coma was less "sticky," or had lower viscosity, than expected. In this composite, X-rays from Chandra (pink and purple) have been combined with an optical image from the Sloan Digital Sky Survey (white). The low viscosity may be caused by tiny irregularities in the galaxy cluster's magnetic fields reducing the distance that particles can move freely.

*Chandra X-ray Observatory ACIS Image*

*CXC operated for NASA by the Smithsonian Astrophysical Observatory*

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