



**Chandra X-ray
Observatory Center**

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ESO 137-001: A spiral galaxy in the Norma cluster over 200 million light years from Earth.
(Credit: X-ray: NASA/CXC/UAH/M.Sun et al; Optical: NASA, ESA, & the Hubble Heritage Team (STScI/AURA))

Caption: This composite image from the Chandra X-ray Observatory (blue) and the Hubble Space Telescope (red, green, and blue) captures this galaxy on its way as it zooms toward the upper left of this image. The intergalactic gas in the Norma cluster is sparse, but so hot at 180 million degrees Fahrenheit that it glows in X-rays detected by Chandra. The spiral moves through the seething intra-cluster gas so rapidly -- at nearly 4.5 million miles per hour -- much of its own gas is caught and torn away. The galaxy's stars remain intact due to the binding force of their gravity.

Scale: Image is 1.6 arcmin across (about 100,000 light years)

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory
