



**Chandra X-ray
Observatory Center**

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ESO 137-001: A galaxy plunging into the cluster Abell 3627 about 230 million light years away.
(Credit: X-ray: NASA/CXC/UVa/M. Sun, et al; H-alpha/Optical: SOAR (UVa/NOAO/UNC/CNPq-Brazil) /M.Sun et al.)

Caption: This composite image of X-rays (blue) and optical and hydrogen light (yellow and red) shows two spectacular tails stretching behind a galaxy as it travels through a galaxy cluster. These tails were formed as relatively cool gas from the galaxy is stripped away by the much hotter gas that permeates the cluster. The dual prongs might be the result from the gas being stripped from two major spiral arms in ESO 137-001. Prior to these results, the brighter of the two tails (which extends about 260,000 light years) had been seen before. The second, fainter tail was a surprise.

Scale: Image is 5 arcmin across.

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory