



**Chandra X-ray
Observatory Center**

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

Abell 2597: A galaxy cluster about 1.1 billion light years from Earth.

(Credit: X-ray: NASA/CXC/SAO/G. Tremblay et al; Radio:ALMA: ESO/NAOJ/NRAO/G.Tremblay et al, NRAO/AUI/NSF/B.Saxton; Optical: ESO/MLT)

Caption: A composite image of the galaxy cluster Abell 2597 shows a dramatic galactic fountain in action. This view combines X-rays from Chandra (purple), submillimeter data from ALMA (yellow), and optical data from the VLT (red). In Abell 2597, there are vast amounts of gas falling toward a supermassive black hole, where a combination of gravitational and electromagnetic forces sprays most of the gas away from the black hole in an ongoing cycle lasting tens of millions of years.

Scale: About 15 arcseconds (75,000 light years) across

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory
