



**Chandra X-ray
Observatory Center**

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

PS1-10jh: A galaxy about 2.7 billion light years from Earth with a supermassive black hole at its center. (Credit: NASA, S. Gezari (The Johns Hopkins University), and J. Guillochon (University of California, Santa Cruz))

Caption: This computer-simulated image shows gas from a star that is ripped apart by tidal forces as it falls into a black hole. Some of the gas also is being ejected at high speeds into space. Observations from multiple telescopes, including NASA's Chandra X-ray Observatory, were used to determine the most direct evidence yet of a star being ripped apart by a supermassive black hole. Chandra's X-ray data were critical in ruling out the other contending possibility that this galaxy instead contained a so-called active galactic nucleus.

CXC operated for NASA by the Smithsonian Astrophysical Observatory
