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Circinus X-1: A neutron star and normal star binary pair about 26,000 light years away in the Milky Way galaxy.

(Credit: X-ray: NASA/CXC/Univ. of Wisconsin-Madison/S.Heinz et al; Optical: DSS; Radio: CSIRO/ATNF /ATCA)

Caption: The youngest member of an important class of objects called X-ray binaries has been found using data from Chandra (blue) and the Australia Compact Telescope Array (purple). X-ray binaries consist of a dense object -- either a black hole or a neutron star -- in orbit with a star like the Sun. Researchers found that the neutron star in Circinus X-1 is less than 4,600 years old, making the X-ray binary much younger than any other known in the Milky Way. This discovery allows astronomers to study a critical phase after a supernova explosion and the birth of a neutron star.

Scale: Image is 10 arcmin across (about 76 light years)

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory