Chandra Science Highlight

J075141 and J174140: Doubling Down With Rare White Dwarf Systems

The illustration shows stages in the evolution of a close binary system consisting of two white dwarf stars of unequal masses.

- Chandra X-ray observations of two close binary systems, J075141 and J17410 set upper limits on the X-ray emission from these objects.
- The upper limits are strong evidence that these systems do not contain neutron stars.
- When combined with optical observations, the data suggest that they are double white dwarf systems, and may produce thermonuclear supernovae in ~ 100 Myr.


Illustration: NASA/CXC/M.Weiss

Instrument: Chandra ACIS Observation

CXC Operated for NASA by the Smithsonian Astrophysical Observatory

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