



**Chandra X-ray  
Observatory Center**

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**Kepler's Supernova Remnant:** A supernova remnant believed to be created when a star exploded over 400 years ago.  
(Credit: NASA/CXC/NCSU/S.Reynolds et al.)

**Caption:** A long Chandra observation of the Kepler supernova remnant provides unprecedented detail of one of the youngest supernovas in the Galaxy. Studying the debris of this exploded star helps in the understanding of how a star's life can end catastrophically. Red in this image shows material heated by the explosion, while yellow and green depict different elements in the ejecta. Blue represents the highest-energy X-rays and shows a shock front generated by the supernova explosion.

**Scale:** Image is 5 arcmin across.

*Chandra X-ray Observatory ACIS Image*

*CXC operated for NASA by the Smithsonian Astrophysical Observatory*