



**Chandra X-ray
Observatory Center**

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Cassiopeia A: A supernova remnant located about 11,000 light years away.
(Credit: NASA/CXC/RIKEN/T. Sato et al.; NuSTAR: NASA/NuSTAR)

Caption: Astronomers using NASA's Chandra X-ray Observatory have announced the discovery of an important type of titanium blasting out from the center of the supernova remnant Cassiopeia A (Cas A), a result that could be a major advance in understanding how some massive stars explode. The different colors in this new image mostly represent elements detected by Chandra in Cas A: iron (orange), oxygen (purple), and the amount of silicon compared to magnesium (green). Titanium (light blue) detected previously by NASA's NuSTAR telescope is shown, but not the different type of titanium found by Chandra. These X-ray data have been overlaid on an optical-light image from the Hubble Space Telescope (yellow).

Scale: Image is about 8.9 arcmin (29 light years) across.

Chandra X-ray Observatory ACIS Image

CXC operated for NASA by the Smithsonian Astrophysical Observatory
