

National Aeronautics and
Space Administration



Tycho Supernova Remnant

The Tycho supernova remnant is named for Danish astronomer Tycho Brahe who noticed a bright glow in the constellation Cassiopeia more than 450 years ago. NASA's Chandra X-ray Observatory has collected X-ray data from Tycho over many years and now astronomers are using NASA's Imaging X-ray Polarimetry Explorer (IXPE) to study polarized X-ray light from the supernova remnant. The composite image contains data from Chandra (red and blue), IXPE (dark purple and white), as well as stars in the field of view in optical light from the Digitized Sky Survey.

Credit: X-ray (IXPE: NASA/ASI/MSFC/INAF/R. Ferrazzoli, et al.),
(Chandra: NASA/CXC/RIKEN & GSFC/T. Sato et al.) Optical: DSS

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