



**Chandra X-Ray  
Observatory Center**

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**PSR 0540-69:** A pulsar and supernova remnant in the Large Magellanic Cloud.  
**Credit:** NASA/CXC/SAO

PSR 0540-69 is 180,000 light years away from Earth in the Large Magellanic Cloud. It is the remnant of a supernova with a neutron star, or pulsar, at the center. The pulsar is rotating very rapidly, making a complete rotation every one-twentieth of a second! It is about 1,000 years old and is surrounded by a cloud of gas and high energy particles that is about five light years in diameter. The large outer ring is due to hot multi-million degree gas produced by the supernova explosion.

**Scale:** Image is 2 x 1.7 arcmin.

*Chandra X-ray Observatory HRC Image*

*CXC operated for NASA by the Smithsonian Astrophysical Observatory*

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