

The conference:

The 9th INTEGRAL workshop "An INTEGRAL view of the high-energy sky (the first 10 years)' Paris, France

Oct 15-Oct 19, 2012

The title of my talk is:

Observations of the Crab Nebula with the Chandra X-Ray Observatory

The abstract is:

The Crab nebula and its associated pulsar have been the target of thousands of observations at all wavelengths over the years. Nevertheless, the system continues to provide new surprises and observational insights into its physical mechanisms. We shall discuss a number of new results we have obtained through Chandra observations. Results include highly detailed pulse-phase spectroscopy which poses challenges to our understanding of pulsar emission mechanisms, a new and precise look at the pulsar geometry, a study of the spatial and temporal variation(s) of the southern jet, and the results of a search for the site of the recently-discovered gamma-ray flares. We have been using the Chandra X-Ray observatory to monitor the Crab on a monthly cadence since just after the 2010 September gamma-ray flare. We were fortunate to trigger series of preplanned target of opportunity observations during the 2011 April flare. And we present the results of these particular observations.