

Observations of the Crab Nebula with the Chandra X-Ray Observatory during the Gamma-Ray flare of 2011 April

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Recently, using the AGILE and Fermi satellites, gamma-ray flares have been discovered from the direction of the Crab Nebula (Tavani et al. 2011, Abdo et al. 2011). 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. We present the results of these observations and address some implications both for now and for the future.