

Title: "A Chandra Observation of the Nearby Sculptor Group Sd Galaxy NGC 7793"

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Abstract: Observations made with the Chandra X-ray Observatory have been remarkably successful in detecting discrete X-ray sources in nearby galaxies. The high angular resolution capabilities of Chandra (approximately 1 arcsecond) has proven to be essential for clearly resolving sources in confused regions and making rigorous comparisons in searches for counterparts detected at other wavelengths. We are analyzing Chandra observations of nearby galaxies as part of our multiwavelength (X-ray, optical and radio) search for supernova remnants (SNRs) in nearby galaxies. To illustrate this work, we describe a 50 kilosecond Chandra observation of the nearby Sculptor Group Sd galaxy NGC 7793: this galaxy has already been the subject of prior optical and radio searches for SNRs. Preliminary results from this observation will be presented and discussed.