RXTE OBSERVATIONS OF NON-THERMAL X-RAY EMISSION FROM GALACTIC SUPERNOVA REMNANT SE1.4

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We present an analysis of RXTE observations of Galactic supernova remnants (SNRs) which are known to exhibit non-thermal X-ray emission. The sample of SNRs considered here includes Cas A, SN 1006, G266.2-1.2 and G347.3-0.5, among other SNRs. We present fits to the X-ray spectra of these SNRs and estimate the maximum energies of the cosmic-ray electrons accelerated in their shock fronts. Initial results and conclusions will be presented. The authors acknowledge support for this work from NASA LTSA grant NAG5-9237.