Abstract Submitted
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Observations of the 2010 January Outburst of the Recurrent Nova U Scoprius using NASA's Swift MARILYN MOORE, SABRINA ENGELHARDT, LAURA VEGA, LAURA MCMASTER, ERIC SCHLEGEL, UTSA, ASHLEY PAGNOTTA, LSU — We report on X-ray observations of the recurrent nova U Scorpius (U Sco) obtained with NASA's Swift during the 2010 Jan outburst. X-ray spectra were obtained in the 0.1-10 keV band at least once per day throughout the outburst which commenced on 2010 Jan 28 and lasted ∼70 days. We fit the spectra with an absorbed, low-order continuum component; the fits yield an integrated X-ray luminosity, the interstellar absorption column, and a pseudo-temperature derived from the continuum parameter. We describe the overall evolution of the X-ray flux as well as the absorption and temperature across the burst.

Eric Schlegel
UTSA

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