# Swift observations of novae

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Abstract

The flexible and responsive Swift ToO programme has enabled unprecedented X-ray and UV coverage of classical and recurrent novae, and has motivated high spectral resolution observations using the Chandra and XMM grating spectrometers. I review these observations and their results. A large variety of behaviors and new phenomena have been revealed by Swift. Examples include correlated, anti-correlated and uncorrelated X-ray and UV flux variations, a 35 second X-ray period in two novae, and fast flux variations of >100x in the early super-soft X-ray flux. X-ray spectral analysis of the super-soft source using both blackbody and atmosphere models show the evolution of the white dwarf photosphere, while spectral analysis of the harder emission allows the ejecta shocks to be described.