

Transients in Middle Earth



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Prospects for detection of fast blue optical transients and supernovae from the Roman Galactic Bulge Time Domain Survey.

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The GBTDS is one of the three core community surveys to be undertaken during the first five years after launch of the Nancy Grace Roman Space Telescope. Its primary purpose is the detection of Milky Way exoplanets by microlensing and transits. However, the survey cadence and area make it useful for extragalactic science, with the obvious caveats of extinction and stellar crowding in the direction of the Galactic Bulge. I will describe a model for estimating the expected yields of extragalactic transients, and discuss how we might detect such events.

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