

[ST08] Time-Series Observations of Ultraviolet Variables and
white dwarf - M dwarf Binary Candidates

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Based on the $g-r$ vs. FUV- g diagram from SDSS and GALEX photometry, variables are divided into two groups with different $g-r$ color : RR Lyrae candidates and dMe flare stars. We observed some unidentified sources to verify their photometric variability. We also performed time-series observations of objects with SDSS spectra presented in Raymond et al. (2003) and Smolcic et al. (2004) to identify whether they are white dwarf - M dwarf binaries, which are considered to be progenitors of cataclysmic variables or Type-I supernovae.

[ST09] Model Light Curves of XTE J1819-254
XTE J1819-254의 광도곡선 모형

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We present model light curves of an compact binary XTE J1819-254. The standard, time-dependent computational method can account for the observed time-varying light curves. In the time-dependent modeling, proper prescriptions for radiation processes, together with sophisticated opacity data, are important.