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Follow-up photometry of M101 OT2015-1 : J/ApJ/834/107

Access to



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Description

See also

FTP

VizieR (<https://vizier.u-strasbg.fr/viz-bin/VizieR?-source=J/ApJ/834/107>)

Common envelope ejection for a luminous red nova in M101. (2017)

Go to the original article (10.3847/1538-4357/834/2/107) (<https://doi.org/10.3847/1538-4357/834/2/107>)

Keywords : binaries: close; novae, cataclysmic variables; stars: individual: (M101 OT2015-1, PSN J14021678+5426205); stars: massive; stars: winds, outflows

Abstract: We present the results of optical, near-infrared, and mid-infrared observations of M101 OT2015-1 (PSN J14021678+5426205), a luminous red transient in the Pinwheel galaxy (M101), spanning a total of 16 years. The light curve showed two distinct peaks with absolute magnitudes $M_{r,\leq -12.4}$ and $M_r \sim -12$, on 2014 November 11 and 2015 February 17, respectively. The spectral energy distributions during the second maximum show a cool outburst temperature of $\sim 3700\text{K}$ and low expansion velocities ($\sim 300\text{km/s}$) for the H I, Ca II, Ba II, and K I lines. From archival data spanning 15-8 years before the outburst, we find a single source consistent with the optically discovered transient, ...(more)

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