

**SN2015am** (PSN J02090990+3159515) located near UGC 1641, discovered by Paolo Campaner on behalf of ISSP.

, [CBAT TOCP](#) discovered 2015/08/13.081 by Paolo Campaner ( [ISSP](#) )  
Found in [UGC 1641](#) at [R.A. = 02h09m09s.90, Decl. = +31°59'51".5](#)  
Located 3" west and 12" north of the center of [UGC 1641](#)

Mag 18.0:8/16, Type II (z=0.0167)

See the spectrum of SN ( [Padova-Asiago spectrum](#) )



## Asiago spectroscopic classification of PSN J02090990+3159515 in UGC 1641

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Subjects: Optical, Supernovae

The Asiago Transient Classification Program (Tomasella et al. 2014, AN, 335, 841) reports the spectroscopic classification of PSN J02090990+3159515 in the galaxy UGC 1641, discovered by P. Campaner (ISSP). Informations on this transient are available from the "Bright Supernova" website (<http://www.rochesterastronomy.org/snimages/>) and the CBAT Transient Object Followup Reports (<http://www.cbat.eps.harvard.edu/index.html>). The observation was performed with the Asiago 1.82 m Copernico Telescope (+AFOSC; range 340-820 nm; resolution 1.4 nm).

Name	Discovery	z	Type	Observation date	Phase	Notes
PSN J02090990+3159515	2015-08-13.081	0.0167	II	2015-08-13.980	~3-4 weeks	(1)

(1) The spectrum shows P-Cygni lines of H, Fe II and Na I, typically observed in Type II SNe during the H recombination phase. However, these lines in PSN J02090990+3159515 are very narrow. The expansion velocity of the ejecta is very low, when compared e.g. with the low-velocity Type IIP SN 2005cs (Pastorello et al. 2009, MNRAS, 394, 2266). From the minimum of H $\alpha$ , we infer an ejecta velocity of about 2100 km/s (slightly lower, about 1700 km/s, from the minimum of H $\beta$ ).

The classification was done with SNID (Blondin and Tonry 2007, ApJ, 666, 1024). The Asiago classification spectra are posted at the website <http://sngroup.oapd.inaf.it>.

[Padova Asiago SN group](#)