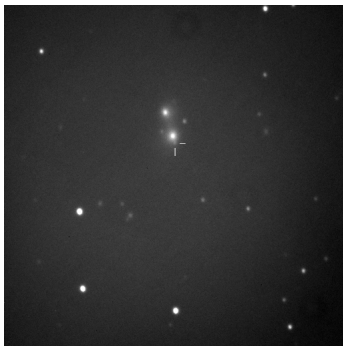


SN2015B (ex PSN J12543553-1234186) discovered on 2015 January 05.12293, by S. Leonini, M. Conti, G. Guerrini, P. Rosi and L.M. Tinjaca Ramirez in NGC 4782 (mv 15,0) during an automatic survey of the Italian Supernovae Search Project (telescope 0,53 mt - Osservatorio Montarrenti - Siena). The coordinates of new source are R.A. 12h54m35.53s +/-0.19", Decl. -12°34'18.6" +/-0.21" UT (Type Ia).

<http://www.cbat.eps.harvard.edu/unconf/followups/J12543553-1234186.html>



CLASSIFICATION ATEL

Asiago spectroscopic classification of four SNe

ATel #6899; [L. Tomasella, S. Benetti, E. Cappellaro, N. Elias-Rosa, P. Ochner, A. Pastorello, L. Tartaglia, G. Terreran, M. Turatto \(INAF OAPd\)](#)

on 11 Jan 2015; 06:07 UT

Credential Certification: Lina Tomasella (lina.tomasella@oapd.inaf.it)

Subjects: Optical, Supernovae

The Asiago Transient Classification Program (Tomasella et al. 2014, AN, 335, 841) reports the spectroscopic observation of ASASSN-15ak, PSN J09411555+3553174, PSN J12543553-1234186, ASASSN-15ae, MASTER OT J021447.67+481852.6. Targets were supplied by the Astronomy Section of the Rochester Academy of Sciences (arXiv:1103.5165) and/or by the CBAT Transient Objects Confirmation Page (TOCP). The observations were performed with the Asiago 1.82 m Copernico Telescope (+AFOSC; range 340-820 nm; resolution 1.2 nm), which was equipped with the CCD Andor IKON L936.

Name	Date (UT)	z	Type
ASASSN-15ak	20150110.87	0.015	SN Ia-pec
MASTER OT J021447.67+481852.6	20150210.90		star
PSN J09411555+3553174	20150110.94	0.023	SN Ia
PSN J12543553-1234186	20150111.12	0.015	SN Ia
ASASSN-15ae	20150111.17	0.031	SN Ia

(1) Best match with type-Ia pec 91T-like SNe, few days before B-band maximum light. The expansion velocity of ASASSN-15ak, as deduced from the position of the minimum of the Si-II 635.5nm absorption, is around 11000 km/s.

(2) The spectrum shows Balmer absorptions (Hbeta, Hgamma, Hdelta), at rest wavelength, on a strong blue continuum. We note a weak emission component in the red wing of Balmer lines. Weak NaID absorption is also visible.

(3) A good match is found with several normal type-Ia supernovae few days before B-band maximum light. The expansion velocity of PSN J09411555+3553174, as deduced from the position of the minimum of the Si-II 635.5nm absorption, is around 12200 km/s.

(4) The spectrum shows this is a type-Ia SN around one week after B-band maximum light. The expansion velocity of PSN J12543553-1234186, as deduced from the position of the minimum of the Si-II 635.5nm absorption, is around 10800 km/s.

(5) Best match with several type-Ia SNe, about one week after B-band maximum. The expansion velocity of ASASSN-15ae, as deduced from the position of the minimum of the Si-II 635.5nm absorption, is around 11200 km/s. The classification is in agreement with ATel # [6897](#).

Classification was done with GELATO (Harutyunyan et al. 2008, A&A, 488, 383) and SNID (Blondin and Tonry 2007, ApJ, 666, 1024). The Asiago classification spectra are posted at the website <http://sngroup.oapd.inaf.it>.