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Asiago spectroscopic classification of AT2016bry

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on 2 May 2016; 06:36 UT

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Subjects: Optical, Supernovae

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The Asiago Transient Classification Program (Tomasella et al. 2014, AN, 335, 841) reports the spectroscopic classification of AT2016bry, discovered by V. Tinella in UGC 11635, and preliminary photometric follow-up.

The observation was performed with the Asiago 1.82 m Copernico Telescope (equipped AFOSC; range 340-820 nm; resolution 1.4 nm). 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 available in the website <http://sngroup.oapd.inaf.it>.

Name	Discovery UT	Obs. Date UT	z	Type	Phase	Notes
AT2016bry	2016-04-19.85	20160430.11	0.016	Ia	+2d	(1)

(1) An excellent match is obtained with the Type Ia SN 1989B (Barbon et al. 1990, A&A, 237, 79) near the maximum light. From the position of the minimum of the Si II 635nm feature, we infer an expansion velocity of 10800 km/s for the ejected material.

In addition follow-up observations were obtained at several epochs.

Obs. Date UT	B mag (err)	V mag (err)	R mag (err)	I mag (err)	Observer
2016-04-19.85		16.59 +- 0.08			Tinella(2)
2016-04-20.94	16.66 +- 0.07	16.35 +- 0.06			Righetti
2016-04-21.06		16.33 +- 0.10			Tinella(2)
2016-04-25.93	16.00 +- 0.03	15.83 +- 0.02	15.36 +- 0.01	14.91 +- 0.02	Righetti
2016-04-25.97		15.94 +- 0.06			Tinella(2)
2016-04-27.35	15.87 +- 0.02	15.57 +- 0.01	15.17 +- 0.01		Castellani, Belligoli
2014-04-29.88		15.90 +- 0.05			Tinella(2)
2016-04-29.91	16.46 +- 0.06	15.80 +- 0.03	15.48 +- 0.03	15.41 +- 0.03	Righetti
2016-04-30.12	16.39 +- 0.01	15.99 +- 0.02	15.80 +- 0.04		Ochner

(2) Unfiltered data scaled to V-band magnitudes.

Padova-Asiago SN group

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