

[SN 2011is](#) (A.R. 14 01 47.16, Dec. +09 29 48.8) scoperta il 21 novembre 2011 nella galassia NGC5409 (offset 16E 24N), magnitudine 16.0, tipo Ia.

SN scoperta da M. Migliardi con il telescopio SC da 11" dell'Osservatorio del Col Drusciè (Cortina d'Ampezzo).



Central Bureau for Astronomical Telegrams INTERNATIONAL ASTRONOMICAL UNION
CBAT Director: Daniel W. E. Green; Hoffman Lab 209; Harvard University; 20 Oxford St.;
Cambridge, MA 02138; U.S.A. e-mail: cbatiau@eps.harvard.edu (alternate cbat@iau.org)
URL <http://www.cbat.eps.harvard.edu/index.html> Prepared using the Tamkin Foundation
Computer Network SUPERNOVA 2011is IN NGC 5409 = PSN J14014714+0929488
Alessandro Dimai, Cortina d'Ampezzo, Italy, on behalf of the Italian Supernovae Search Project
(ISSP), reports the discovery by Merco Migliardi of an apparent supernova on unfiltered CCD
images (limiting mag about 18.0) taken with the "Maioni" 0.28-m telescope of the Col Drusci
Observatory on Nov. 21.178 (when the new object was at mag about 17.0) and 22.209 UT (at
mag about 16.5). The variable is located at R.A. = 14h01m47s.00, Decl. = +09d29'50".1

(equinox 2000.0), which is 16" east and 24" north of the nucleus of NGC 5409. Nothing is visible at this position on Palomar Sky Survey infrared, red, and blue plates. The variable was designated PSN J14014716+0929488 when it was posted at the Central Bureau's TOCP webpage and is here designated SN 2011is based on the spectroscopic confirmation reported below. Additional CCD magnitudes for 2011is (unfiltered unless noted otherwise): Apr. 9, [19.5 (ISSP, via Dimai); Nov. 23.515, 17.4 (Joseph Brimacombe, Cairns, Australia; remotely using a 51-cm RCOS telescope + STL11K camera + luminance filter at the New Mexico Skies Observatory near Mayhill, New Mexico; position and figures 46s.99, 50".9; his image is posted at the following website URL: <http://www.flickr.com/photos/43846774@N02/6391358701/>); 25.211, 17.0 (Federica Luppi and Luca Buzzi, Varese, Italy; 0.38-m f/6.8 reflector; position and figures 46s.92, 50".8; reference stars from the NOMAD catalogue; image posted at website URL http://www.astrogeo.va.it/pub/TOCP/PSN_N5409.jpg); 27.20, 16.6 (Dimai). L. Tomasella, A. Pastorello, S. Valenti, and S. Benetti, Istituto Nazionale di Astrofisica, Osservatorio Astronomico di Padova, on behalf of a larger collaboration, report that a spectrogram of PSN J14014714+0929488 = SN 2011is, obtained on Nov. 28.23 UT with the Asiago 1.82-m Copernico Telescope (+ AFOSC; range 350-820 nm, resolution 2.4 nm), shows it to be a type-Ia supernova. The best fit to this spectrum found by GELATO (Harutyunyan et al. 2008, A.Ap. 488, 383; available at URL <https://gelato.tng.iac.es/login.cgi>) suggests that 2011is is a type-Ia supernova about 50 days after maximum light, adopting for the host galaxy a redshift of $z = 0.02088$ (Beers et al. 1995, A.J. 109, 874; via NED). NOTE: These 'Central Bureau Electronic Telegrams' are sometimes superseded by text appearing later in the printed IAU Circulars. (C) Copyright 2011 CBAT 2011 December 4 (CBET 2935) Daniel W. E. Green