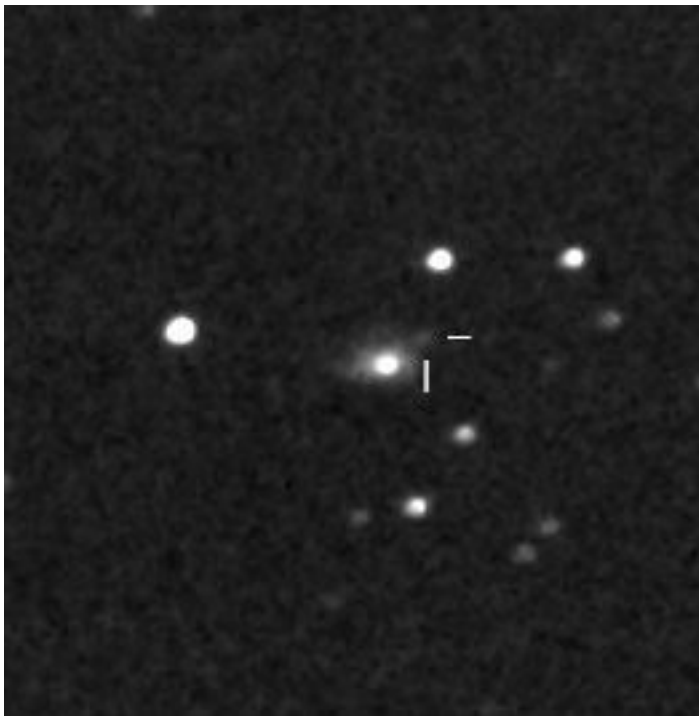


SN2012gf (A.R. 21 45 09.63, Dec. +10 06 12.6), scoperta il 30 ottobre 2012 nella galassia pgc 67294 (offset 13W 9S), magnitudine 16.8.

SN scoperta da A. Dimai con il telescopio S.C. da 11" dell'Osservatorio del Col Drusciè (Cortina d'Ampezzo).



CBET 3294 SUPERNOVA 2012gf IN PGC 67294 = PSN J21450963+1006126

Electronic Telegram No. 3294 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

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<http://www.cbat.eps.harvard.edu/index.html>

Prepared using the Tamkin Foundation Computer Network SUPERNOVA 2012gf IN PGC 67294 = PSN J21450963+1006126 Simone Leonini, Siena, Italy, reports the discovery by A. Dimai (Cortina d'Ampezzo, Italy) of an apparent supernova (mag about 16.8) on two unfiltered CCD images (limiting mag 18.0) taken on Oct. 30.774 UT taken with the 0.28-m telescope of the Col Drusci Observatory in the course of the Italian Supernovae Search Project. The new

object is located at R.A. = 21h45m09s.63, Decl. = +10d06'12".6 (equinox 2000.0), which is 13" west and 9" north of the nucleus of the presumed host galaxy. No stellar source is visible at this position on Palomar Sky Survey infrared, red, and blue plates (1994 July 3, F plate; 1990 Sept. 13, J plate; 1990 July 20, N plate; limiting mag 19.5). The images utilized for the discovery are posted at the following website URL:

http://www.astrophilisenesi.it/public/Sne/Uploads/PSN_PGC067294.jpg

. The variable was designated PSN J21450963+1006126 when it was posted at the Central Bureau's TOCP webpage and is here designated SN 2012gf based on the spectroscopic confirmation reported below. Additional CCD magnitudes for 2012gf: Sept. 6, [18.0 (Dimai); 27, [18.0 (Dimai); Oct. 16.783, 17.4 (Dimai; pre-discovery; barely visible; limiting mag about 18.0); Nov. 6.077, 17.6 (R. A. Koff, Bennett, CO, USA; Meade 0.25-m f/10 reflector + Apogee U-47 camera; limiting magnitude 19.2; position end figures 09s.47, 12".9; image posted at <http://antelopehillsobservatory.org/SNpictures/PSNJ21450963+1006126final.jpg>); 7.101, 18.1 (J. Brimacombe, Cairns, Australia; luminance filter; position end figures 09s.47, 13".9). Brimacombe's image is posted at the following website URL:

<http://www.flickr.com/photos/43846774@N02/8166259876/>

. L. Tomasella, S. Benetti, E. Cappellaro, P. Ochner, A. Pastorello, and M. Turatto, Osservatorio Astronomico di Padova, Istituto Nazionale di Astrofisica, report that optical spectroscopy (range 340-820 nm; resolution 1.3 nm), obtained on Nov. 6.82 UT with the Asiago 1.82-m Copernico Telescope (+ AFOSC) by the Service Telescope Operating Team, shows that PSN J21450963+1006126 = SN 2012gf is a type-II supernova about ten days after the explosion at assumed redshift $z = 0.027536$ (Falco et al. 1999, PASP 111, 438; via the NED database), similar to SN 1999em (Baron et al. 2000, Ap.J. 545, 444; Elmhamdi et al. 2003, MNRAS 338, 939). The Asiago classification spectra are posted at website URL

<http://graspa.oapd.inaf.it>

; classification was made via GELATO (Harutyunyan et al. 2008, A.Ap. 488, 383) and SNID (Blondin and Tonry 2007, Ap.J. 666, 1024). NOTE: These 'Central Bureau Electronic Telegrams' are sometimes superseded by text appearing later in the printed IAU Circulars.

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