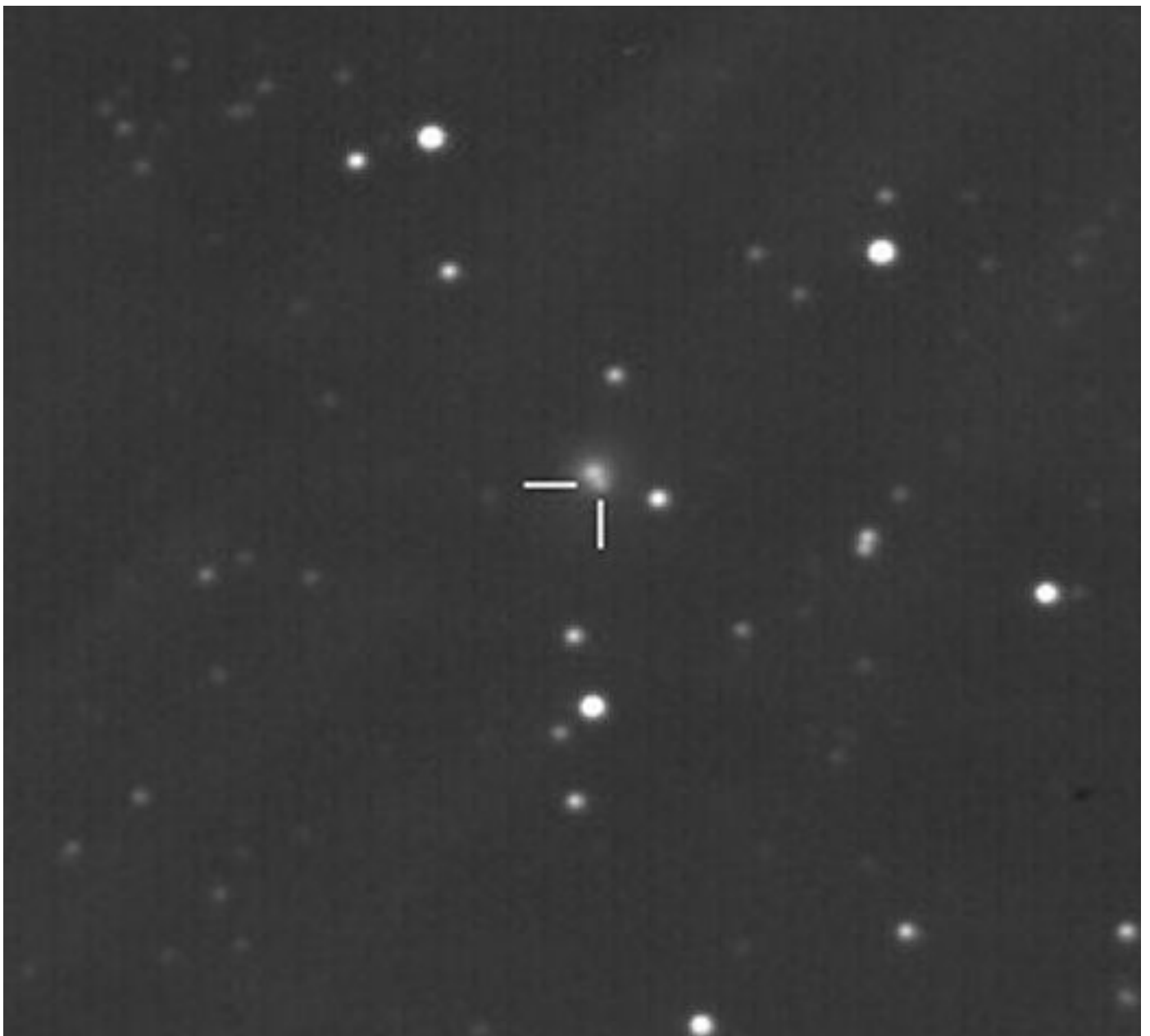


SN 2013ey (A.R., 20 58 03.73 Dec. +11 03 10.8), scoperta il 11 agosto 2013 nella galassia pgc 65806 (offset 2W 3S), magnitudine 16.3, tipo: Ia ([ATEL 5278](#))

PSN individuata da Ciabattari, Mazzoni e Rossi con il telescopio Newton da 50cm dell'Osservatorio di Monte Agliale (Lucca).



Electronic Telegram No. 3636 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 2013ey IN PGC 65806 = PSN J20580373+1103108 F. Ciabattari, E. Mazzoni, and M. Rossi, Borgo a Mozzano, Italy, report the discovery of an apparent supernova (mag 16.3) on unfiltered CCD images (limiting magnitude 19.5) obtained on Aug. 11.98 and 13.82 UT with a 0.5-m Newtonian telescope in the course of the Italian Supernovae Search Project. The new object is located at R.A. = 20h58m03s.73, Decl. = +11d03'10".8 (equinox 2000.0; astrometry with respect to UCAC-2 stars), which is 2" west and 3" south of the center of the galaxy PGC 65806. Nothing is visible at this position on the digitized plates of the Palomar Sky Survey to limiting magnitude 20.3 from 1987 Sept. 18 (F plate) and 1990 June 25 (J plate). The variable was designated PSN J20580373+1103108 when it was posted at the Central Bureau's TOCP webpage and is here designated SN 2013ey based on the spectroscopic confirmation reported below. Additional CCD magnitudes for 2013ey: Aug. 3, [19.5 (Ciabattari); 14.505, 15.7 (Joseph Brimacombe, Cairns, Australia; 43-cm CDK telescope + STL6K camera + infrared filter; bandpass > 700 nm; position end figures 03s.73, 11".0; image posted at website URL

<http://www.flickr.com/photos/43846774@N02/9519273813/>

); 15.965, 16.7 (S. Foglia and G. Galli, Pogliano Milanese, Italy; 0.28-m f/6.8

Schmidt-Cassegrain reflector + ST8XME camera; position end figures 03s.71, 10".5; UCAC-4 reference stars); 20.843, V = 15.9 (Massimiliano Martignoni, Magnago, Italy; 25-cm f/10

Schmidt-Cassegrain reflector; position end figures 03s.74, 10".2); 21.858, V = 16.1

(Martignoni). S. Valenti, Las Cumbres Observatory Global Telescope (LCOGT) and

University of California at Santa Barbara (UCSB); D. Sand, Texas Tech University; D. A.

Howell and M. L. Graham, LCOGT and UCSB; and J. T. Parrent, LCOGT and Dartmouth

College, report that a spectrogram (range 320-1000 nm) of PSN J20580373+1103108 = SN

2013ey was obtained robotically on Aug. 14.42 UT with the FLOYDS spectrograph at "Faulkes

Telescope North" at Haleakala. The spectrum shows 2013ey to be a type-Ia supernova

roughly one week before maximum light and is consistent with the host-galaxy (CGCG 425-26)

redshift of $z = 0.027$. Classification was performed via supernova spectrum cross-correlation using 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. (C) Copyright 2013 CBAT 2013 August 22 (CBET 3636) Daniel W. E. Green