

SN2013dr (A.R., 17 19 30.26 Dec. +47 42 04.6), scoperta il 30 giugno 2013 nella galassia pgc 60077 (offset 9W 5S), magnitudine 16.3, tipo Ia.

SN scoperta da Ciabattari, Mazzoni, Rossi e Petroni con il telescopio Newton da 50cm dell'Osservatorio di Monte Agliale (Lucca) e ASAS-SN indipendentemente.



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INTERNATIONAL ASTRONOMICAL UNION

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SUPERNOVA 2013dr IN PGC 60077 = PSN J17193026+4742046

F. Ciabattari, E. Mazzoni, M. Rossi, and G. Petroni, Borgo a Mozzano, Italy, report their discovery of an apparent supernova (mag 16.3) on unfiltered CCD images (limiting magnitude 19.5) obtained on June 30.91 and July 1.85 UT with a 0.5-m Newtonian reflector in the course of the Italian Supernovae Search Project. The new object is located at R.A. = 17h19m30s.26, Decl. = +47d42'04".6 (equinox 2000.0; astrometry with respect to USNO-B stars), which is 9" west and 5" south of the center of the galaxy PGC 60077. Nothing is visible at this position on a digitized F plate from the Palomar Sky Survey taken on 1987 Apr. 24 (limiting magnitude 20.3). The variable was designated PSN J17193026+4742046 when it was posted at the Central Bureau's TOCP webpage and is here designated SN 2013dr based on the spectroscopic confirmation reported below. Additional CCD magnitudes for 2013dr: 2013 June 13, [19.2 (Ciabattari); July 4.348, 15.9 (Joseph Brimacombe, Cairns, Australia; remotely using a 51-cm RCOS telescope + luminance filter located near Mayhill, NM, U.S.A.; position end figures 30s.18, 03".5; image posted at website URL <http://www.flickr.com/photos/43846774@N02/9216366844/>); 6.934, R = 15.2 (Xavier Bros, Ager, Spain; 35-cm f/4.6 telescope; position end figures 30s.23, 04".7; UCAC2 reference stars; image posted at the following website URL: http://www.anysillum.com/PSN_PGC60077.jpg).

L. Tomasella, S. Benetti, A. Pastorello, E. Cappellaro, P. Ochner, and M. Turatto, report that optical spectroscopy (range 340-820 nm; resolution 1.3 nm) obtained on July 2.84 UT with the Asiago 1.82-m Copernico Telescope (+ AFOSC), shows that PSN J17193026+4742046 = SN 2013dr is a type-Ia supernova. Assuming for the host galaxy, PGC 60077, the redshift $z = 0.016835$ after Falco et al. (1999, PASP 111, 438; via NED), a good match is found with several type-Ia supernovae at one week before maximum light. The expansion velocity, as deduced from the position of the minimum of the Si II 635.5-nm absorption, is about 11200 km/s. The Asiago classification spectra are posted at website URL <http://sngroup.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).

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