

[SN 2012en](#) (A.R. 04 07 25.28, Dec. +01 45 33.3), scoperta il 9 settembre 2012 nella galassia pgc 14498 (offset 24W 7S), magnitudine 17.8, tipo Ia ([ATEL 4370](#)).

SN scoperta da F. Ciabattari ed E. Mazzoni con il telescopio Newton da 50cm dell'Osservatorio di Monte Agliale (Lucca).



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INTERNATIONAL ASTRONOMICAL UNION

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SUPERNOVA 2012en IN PGC 14498 = PSN J04072528+0145333

F. Ciabattari and E. Mazzoni, Borgo a Mozzano, Italy, report their discovery of an apparent supernova (mag 17.8) on unfiltered CCD images (limiting mag 19) obtained on Sept. 9.12 and 10.16 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. = 4h07m25s.28, Decl. = +1d45'33".3 (equinox 2000.0; astrometry with respect to UCAC-2 stars), which is 24" west and 7" south of the center of the galaxy PGC 14498 = MCG +00-11-12. The variable was designated PSN J04072528+0145333 when it was posted at the Central Bureau's TOCP webpage and is here designated SN 2012en based on the spectroscopic confirmation reported below. Additional magnitudes for 2012en: 1991 Oct. 14, [20.3 (Palomar Sky Survey, J plate, via Digitized Sky Survey; reported by Ciabattari); 1995 Oct. 18, [20.3 (POSS, F plate, via DSS; reported by Ciabattari); 2012 Sept. 11.426, 18.3 (Joseph Brimacombe, Cairns, Australia; luminance filter; position end figures 25s.12, 32".4; image posted at website URL <http://www.flickr.com/photos/43846774@N02/7978210149/>).

L. Tomasella, S. Benetti, E. Cappellaro, A. Pastorello, M. Turatto, and S. Valenti, Osservatorio Astronomico di Padova, Istituto Nazionale di Astrofisica, report that a spectrogram of PSN J04072528+0145333 = SN 2012en, obtained on Sept. 11.13 UT with the Asiago 1.82-m Copernico Telescope (+ AFOSC; range 350-820 nm, resolution 1.3nm), indicates that it is a type-Ia supernova. Adopting for the host galaxy (PGC 14498) a redshift $z = 0.017295$ (Saunders et al. 2000, MNRAS 317, 55; via NED), comparison with a library of supernova spectra via GELATO (Harutyunyan et al. 2008, A.Ap. 488, 383) indicates that 2012en is a type-Ia event around one month after maximum light.

F. Taddia, Stockholm University, reports on optical spectroscopy of PSN J04072528+0145333 = SN 2012en, obtained with the Nordic Optical Telescope (+ ALFOSC; range 350-900 nm, resolution 0.8 nm) on Sept. 11.15 UT. The fully reduced spectrum, cross-correlated with a library of supernova spectra using the "Supernova Identification" code (Blondin and Tonry 2007, Ap.J. 666, 1024), shows 2012en to be a type-Ia supernova at 40 days after maximum light.

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