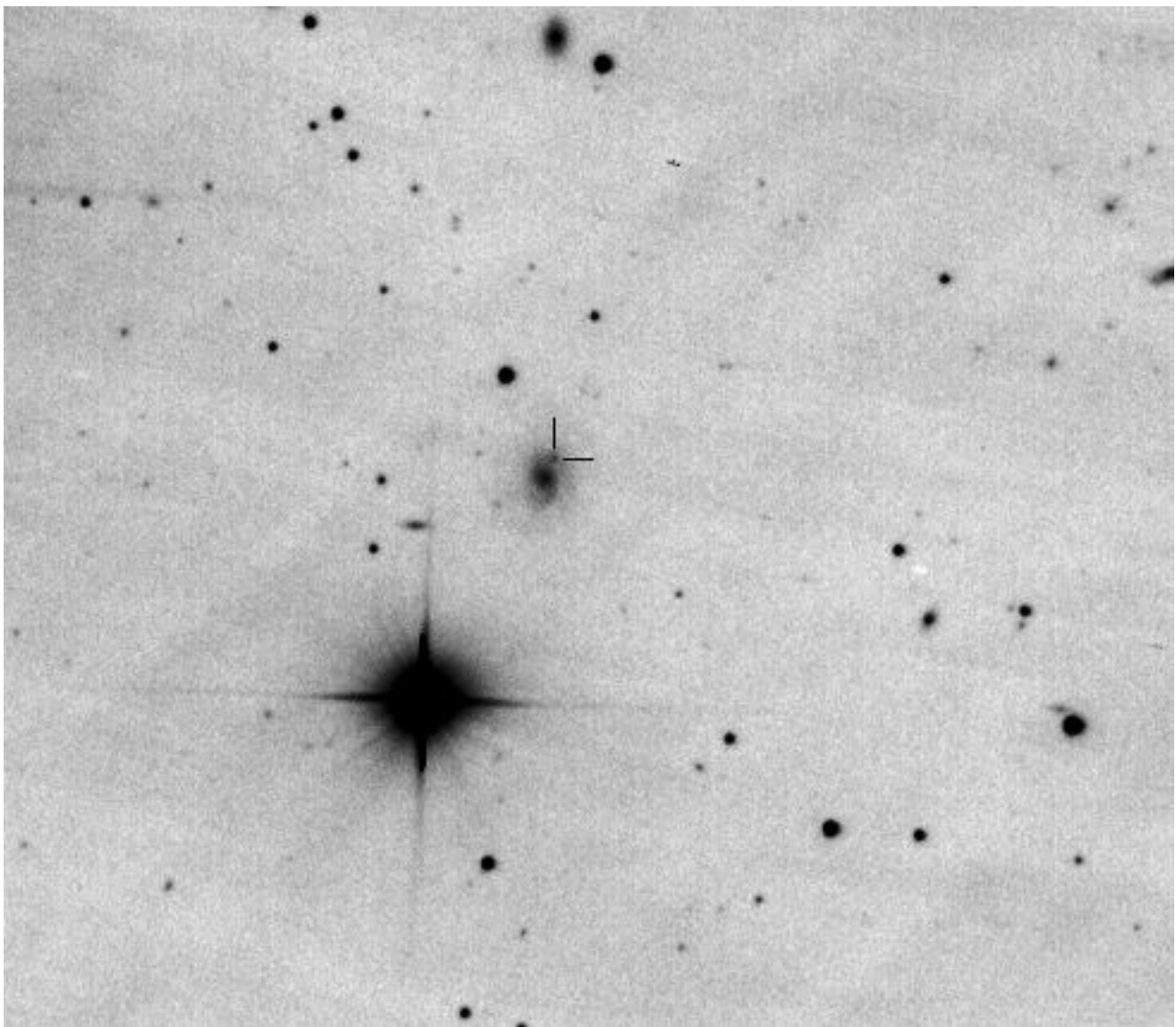


SN 2013fk (A.R., 01 57 33.55 Dec. -02 05 57.2), scoperta il 3 settembre 2013 nella galassia ugc 1442 (offset 4W 9N), magnitudine 18.5, tipo: Ia

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



Electronic Telegram No. 3657

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>

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SUPERNOVA 2013fk IN UGC 1442 = PSN J01573355-0205572

F. Ciabattari, E. Mazzoni, and R. Simonetti, Borgo a Mozzano, Italy, report the discovery of an apparent supernova (mag 18.5) on unfiltered CCD images (limiting magnitude 19.5) obtained on Sept. 3.06 and 4.10 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. = 1h57m33s.55, Decl. = -2d05'57".2 (equinox 2000.0; astrometry with respect to UCAC-2 stars), which is 4" west and 9" north of the center of the galaxy UGC 1442. Nothing is visible at this position on digitized plates of the Palomar Sky Survey from 1986 Sept. 4 (F plate; limiting magnitude 20.3) and 1992 Oct. 20 (J plate; limiting magnitude 20.3). The variable was designated PSN J01573355-0205572 when it was posted at the Central Bureau's TOCP webpage and is here designated SN 2013fk based on the spectroscopic confirmation reported below. Additional CCD magnitudes for 2013fk: Sept. 4.964, 18.3 (Gianluca Masi, Francesca Nocentini, and Patrick Schmeer, remotely using a 43-cm telescope at Ceccano, Italy; position end figures 33s.57, 58".5); 5.309, 18.8 (Joseph Brimacombe, Cairns, Australia; remotely using a 51-cm RCOS telescope + STL11K camera + luminance filter at the New Mexico Skies observatory near Mayhill, NM, USA; position end figures 33s.50, 58".2; image posted at website URL <http://www.flickr.com/photos/43846774@N02/9685269608/>).

Masaomi Tanaka, National Astronomical Observatory of Japan; Nozomu Tominaga, Konan University; Yuki Kikuchi, University of Tokyo; Nobuharu Ukita, National Astronomical Observatory of Japan; Kensho Mori, Hiroshima University; Emiko Matsumoto, Konan University; Tomoki Morokuma, Institute of Astronomy, University of Tokyo; and Ikuru Iwata, National Astronomical Observatory of Japan, on behalf of the Kiso Supernova Survey (KISS) project, report that they obtained a visual-wavelength spectrogram of PSN J01573355-0205572 = SN 2013fk on Sept. 10.7 UT with the Okayama 188-cm telescope (+ Kyoto Okayama Optical Low-dispersion Spectrograph). Comparison with a library of supernova spectra using SNID (Blondin and Tonry 2007, Ap.J. 666, 1024) suggests that the spectrum of 2013fk is similar to that of type-Ia supernovae at about 100 days after maximum light.

NOTE: These 'Central Bureau Electronic Telegrams' are sometimes superseded by text appearing later in the printed IAU Circulars.

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