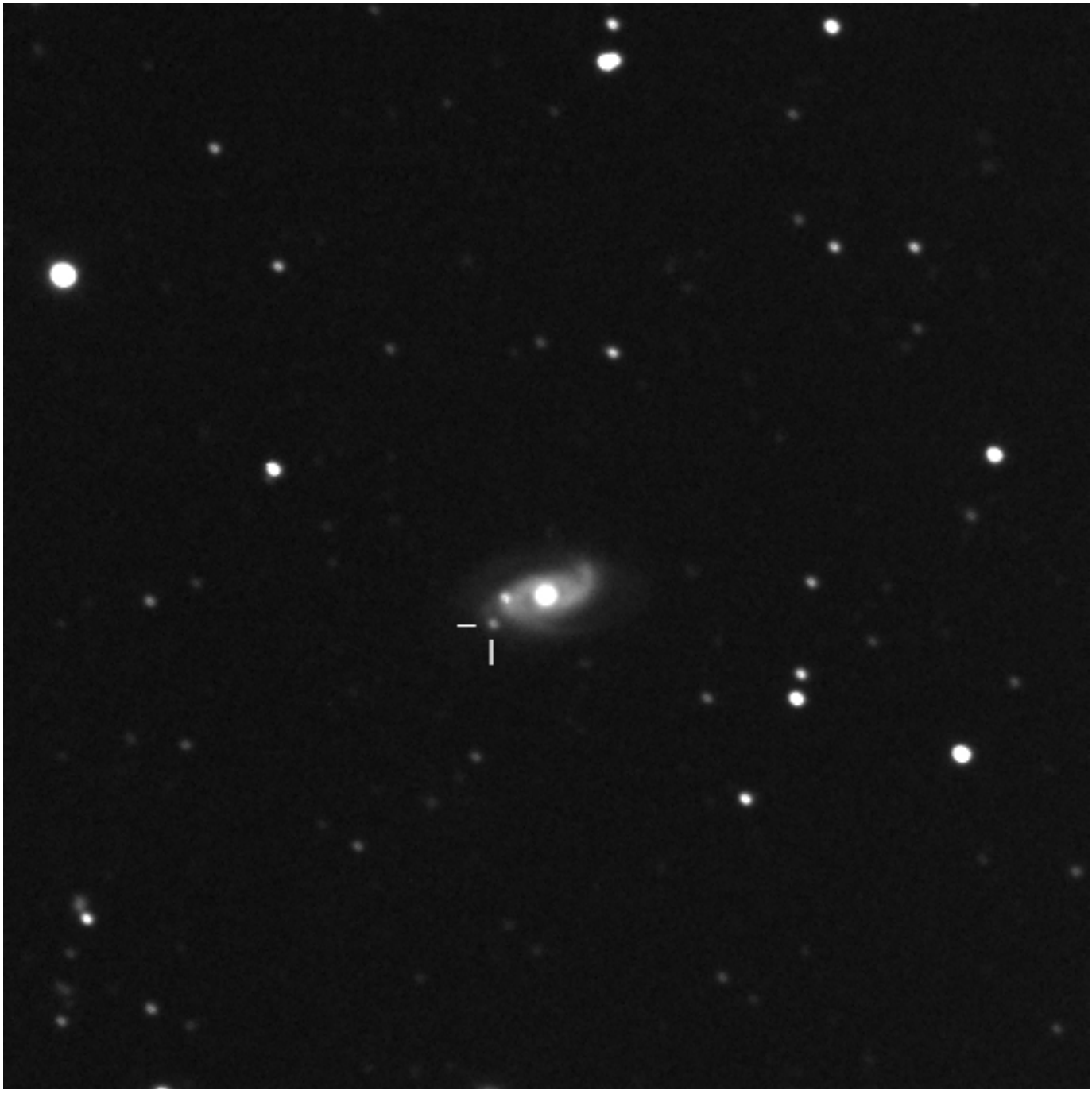
SN J2013bj (A.R. 14 14 19.63, Dec. -07 03 06.9), scoperta il 4 aprile 2013 nella galassia pgc 50171 (offset 21E 12S), magnitudine 18.0, tipo II (Atel 4975).

SN scoperta da Simone Leonini, L.M. Tinjaca Ramirez, G. Guerrini and P. Rosi con il telescopioRitchey Chretien da 53 cm di diametro dell'osservatorio di Montarrenti (Siena).



Electronic Telegram No. 3482 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 2013bj IN PGC 50171 = PSN J14041963-0703069 Simone Leonini, Siena, Italy, reports the discovery by S. Leonini, L. M. Tinjaca Ramirez, G. Guerrini, and P. Rosi of an apparent supernova (mag about 18.0) on an unfiltered CCD image (limiting mag about 18.7) taken on Apr. 4.009 UT at the Montarrenti Observatory in the course of an automatic survey of the Italian Supernovae Search Project using a 0.53m f/8.7 Ritchey-Chretien telescope (+ Apogee Alta U47 camera). The new object is located at R.A. 14h04m19s.63, Decl. = -7d03'06".9, equinox 2000.0), which is 21" east and 12" south of the nucleus of the galaxy PGC 50171. The discovery image is posted at
http://www.astrofilisenesi.it/public/Sne/Uploads/discovery_PSN_in_PGC50171.jp...
. The variable was designated PSN J14041963-0703069 when it was posted at the Central Bureau's TOCP webpage and is here designated SN 2013bj based on the spectroscopic confirmation reported below. Additional magnitudes for 2013bj: 2012 May 10, [18.5 (Leonini); 2013 Apr. 6.384, 18.1 (Leonini; remotely with a 0.43-m Planewave CDK telescope + FLI PL6303E camera; iTelescope.net observatory near Mayhill, NM, USA); 6.392, 18.8 (Joseph Brimacombe, Cairns, Australia; 51-cm RCOS telescope + luminance filter located at the New Mexico Skies observatory near Mayhill; position end figures 19s.58, 07".7; image posted at website URL
http://www.flickr.com/photos/43846774@N02/8625043195/
); 12.941, 18.1 (Leonini and Tinjaca Ramirez). M. Childress, R. Scalzo, B. Tucker, F. Yuan, and B. Schmidt, Australian National University (ANU), report spectroscopic classification of PSN J14041963-0703069 = SN 2013bj as an old type-II supernova. They obtained a 20-min spectrum of 2013bj on Apr. 12.76 UT with the Wide Field Spectrograph (WiFeS; Dopita et al. 2007, Ap. Space Sci. 310, 255) on the ANU 2.3-m telescope at Siding Spring Observatory using the B3000/R3000 gratings (wavelength range 350-980 nm at 0.1-nm resolution). The spectrum of 2013bj was compared to supernova spectral templates using SNID (Blondin and Tonry 2007, Ap.J. 666, 1024). The best matches were consistently to spectra of type-IIP supernovae of age 5-6 weeks, with the best match being to that of SN 1992H at 44 days. The redshift fitted from 2013bj was z = 0.030 +/- 0.005, consistent with the redshift of the apparent host galaxy, PGC 50171 (z 0.028; Da Costa et al. 1998, A.J. 116, 1)." NOTE: These 'Central Bureau Electronic Telegrams' are sometimes superseded by text appearing later in the printed IAU Circulars. 2013 April 21 (CBET 3482) Daniel W. E. Green