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SUPERNOVAE 2005M AND 2005N

Two apparent supernovae have been reported from unfiltered CCD frames: 2005M by T. Puckett and D. George (cf. *IAUC* 8460; 0.60-m automated supernova patrol telescope), and 2005N by J. Graham and W. Li (cf. *IAUC* 8460; LOSS/KAIT).

SN	2005 UT	α_{2000}	δ_{2000}	Mag.	*Offset*
2005M	Jan. 19.37	$9^{h}37^{m}32^{s}.36$	$+23^{\circ}12'02''.7$	18.8	$6''.6$ W, $10''.8$ S
2005N	Jan. 19.58	14 04 02.61	–14 37 48.8	18.8	$39''$ E, $48''$ S

Additional approximate CCD magnitudes by the respective discoverers: SN 2005M in NGC 2930, 2002 Apr. 4 UT, [20.0; 2005 Jan. 20.22, 18.2. SN 2005N in NGC 5420, 2004 July 9.21, [20.0; 2005 Jan. 20.55, 18.3.

SUPERNOVAE 2005J AND 2005K

M. Modjaz, R. Kirshner, and P. Challis, Harvard-Smithsonian Center for Astrophysics, report that a spectrum (range 350–740 nm) of SN 2005J (cf. *IAUC* 8467), obtained by M. Calkins on Jan. 19.40 UT with the F. L. Whipple Observatory 1.5-m telescope (+ FAST), shows it to be a type-II supernova, probably within a few weeks past explosion. The spectrum consists of a blue continuum and Balmer-line P-Cyg features. Adopting the NED recession velocity of 4182 km/s for the host galaxy, the expansion velocity derived from the minimum of the Hβ line is $\sim$ 10000 km/s. A noisy spectrogram of SN 2005K (*IAUC* 8468) taken by Calkins on Jan. 19.42 reveals it to be a type-II supernova. The spectrum shows P-Cyg features of Hα and Hβ, and the expansion velocity derived from the minimum of the Hβ line is $\sim$ 5000 km/s (adopting the NED recession velocity of 8151 km/s for the host galaxy).

COMET C/2005 A1 (LINEAR)

Improved parabolic orbital elements from *MPEC* 2005-B03.

$$\begin{array}{llll} T = 2005\ \text{Apr. } 10.2414\ \text{TT} & \omega = 271^{\circ}.8882 & \\ & \Omega = 355.8552 & \left.\right\} 2000.0 \\ q = 0.906662\ \text{AU} & i = \ \ 74.8859 & \end{array}$$

Total visual magnitude estimate by J. J. Gonzalez, Asturias, Spain (0.20-m reflector): Jan. 17.25 UT, 11.6 (coma diameter $2'.5$).

2005 January 21 *Daniel W. E. Green*