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INTERNATIONAL ASTRONOMICAL UNION**

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SUPERNOVAE 2005ir–2005kc

Three apparent supernovae brighter than mag 20 have recently been reported. SN 2005ir was discovered independently by the Sloan Digital Sky Survey (SDSS) II collaboration (via multiple g , r , and i images taken with the SDSS 2.5-m telescope; communicated by J. Frieman, Fermilab and University of Chicago) and by R. Quimby, M. Sellers, and F. Castro (University of Texas; via unfiltered CCD images with the 0.45-m ROTSE-IIIb telescope at the McDonald Observatory); the tabulated data below are from Quimby *et al.* (position uncertainty $\pm 0''.6$). SN 2005kb was also found by the SDSS II group. SN 2005kc was reported by T. Puckett and G. Sostero (cf. *IAUC* 8615) via unfiltered CCD images with the 0.35-m automated supernova patrol telescope.

SN	2005 UT	α_{2000}	δ_{2000}	Mag.	Offset
2005ir	Nov. 3.11	1 ^h 16 ^m 43 ^s .76	+ 0°47'40''.4	18.5	1''.7 W, 3''.4 N
2005kb	Nov. 5	0 50 50.68	+ 0 51 13.0	18.1	13''.7 W, 8''.4 N
2005kc	Nov. 9.04	22 34 07.34	+ 5 34 06.3	18.2	7''.6 E, 7''.4 S

Frieman *et al.* provide position and figures 43^s.80, 40''.6 for 2005ir; additional approximate magnitudes: Aug. 22 and 28, [18.9 (Quimby *et al.*); Oct. 28 UT, $g = 21.1$ (SDSS II); Nov. 6.14, 17.8 (Quimby *et al.*). Spectroscopy by both groups indicate that 2005ir is a type-Ia supernova with redshift $z = 0.08$, with peak brightness around now. Additional information on SN 2005ir can be found on *CBET* 277. SDSS magnitudes of 2005kb: Nov. 5, $g = 18.1$, $r = 18.3$, $i = 18.5$; Nov. 7, 18.0, 18.0, 18.3. A spectrum taken on Nov. 8 with the ARC 3.5-m telescope (+ DIS) shows SN 2005kb to be of type II; an earlier SDSS spectrum shows the host galaxy to be at redshift $z = 0.0153$ (cf. *CBET* 281). Additional approximate magnitudes for SN 2005kc in NGC 7311: Sept. 6 and 9, [20.0; Nov. 11.02, 18.0 (0.60-m reflector).

Frieman also reports the discovery of 35 additional supernovae found by the SDSS II collaboration and designated 2005is–2005ka on *CBET* 280. All were fainter than magnitude $g = 20.5$ upon discovery in October, and all are type-Ia or probable type-Ia supernovae except for 2005jq and 2005jr (which are of type II_n).

COMET 173P/MUELLER

Comet P/1993 W1 = 2005 T1 (cf. *IAUC* 8613) has been given the permanent number 173P (cf. *MPC* 54939).