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SUPERNOVA 2005cq

M. Riello, Osservatorio Astronomico di Padova (OAP); S. Valenti, Università di Ferrara; M. Turatto and S. Benetti, OAP; M. T. Botticella and E. Cappellaro, Osservatorio Astronomico di Capodimonte; and F. Patat, European Southern Observatory (ESO), report the discovery of a supernova ($R = 21.9$) on a CCD frame taken during a search performed with the Max-Planck-Institute 2.2-m telescope (+ Wide Field Imager) at the ESO on May 13. SN 2005cq is located at $\alpha = 9^{\text{h}}52^{\text{m}}00^{\text{s}}.48$, $\delta = -20^{\circ}43'26''.5$ (equinox 2000.0); the supernova and the host galaxy are not visible on reference images taken with the same equipment in Feb. 2004 (limiting mag $R \sim 24$). A spectrum (range 600–1100 nm, resolution 0.6 nm), obtained on May 23.46 UT with the ESO 8.2-m ANTU telescope (+ FORS2), shows 2005cq to be a type-Ia supernova ~ 1 week past maximum light, when compared with the spectrum of SN 1994D (Patat *et al.* 1996, *MNRAS* **278**, 111) and a redshift of 0.31 is assumed for the parent galaxy.

COMETS C/2005 J11, J12, and K4–K8 (SOHO)

Following are the initial available positions for additional presumed comets found on SOHO website images (continuation to *IAUC* 8549). All were Kreutz sungrazers except for C/2005 K4 (Meyer group). K. Battams writes that C/2005 J11 was diffuse with no tail, reaching mag ~ 7.2 at $5.8R_{\odot}$ on May 15.243 UT. C/2005 J12 was tiny with no tail (too faint for photometry). C/2005 K4 was also tiny and barely above the background, and it showed no elongation. C/2005 K5 was very small, ‘teardrop’-shaped, and diffuse, reaching mag ~ 8.2 at $5.9R_{\odot}$ on May 18.701. C/2005 K6 was very diffuse with no tail and barely above the sky background. C/2005 K7 was an extremely faint and diffuse companion to C/2005 K8, which in turn was diffuse and had a hint of a tail (reaching mag ~ 8.2 at $5.6R_{\odot}$ on May 20.535).

Comet	2005 UT	α_{2000}	δ_{2000}	Inst.	F	MPEC
C/2005 J11	May 15.213	$3^{\text{h}}32^{\text{m}}.2$	$+17^{\circ}26'$	C2	BZ	2005-M39
C/2005 J12	15.910	$3\ 34.9$	$+17\ 34$	C2	TH	2005-M39
C/2005 K4	16.226	$3\ 35.9$	$+20\ 21$	C2	RK	2005-M39
C/2005 K5	18.685	$3\ 45.3$	$+18\ 10$	C2	HS	2005-M39
C/2005 K6	20.129	$3\ 50.4$	$+18\ 24$	C2	TH	2005-M39
C/2005 K7	20.504	$3\ 52.4$	$+18\ 33$	C2	KB	2005-M39
C/2005 K8	20.518	$3\ 52.0$	$+18\ 35$	C2	HS	2005-M39