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SUPERNOVA 2003ma

A. Rest, Physics Department, Harvard University, on behalf of the SuperMACHO collaboration, reports the discovery of a supernova (at "VR" magnitude 20.5) at z=0.289 behind the Large Magellanic Cloud on images obtained on 2003 Dec. 13 with the Cerro Tololo 4-m Blanco telescope in the course of the SuperMACHO microlensing survey (Rest et al. 2005, Ap.J. 634, 1103). The object, designated SN 2003ma, faded by only 2.9 mag in I over the first 4.7 years following peak brightness (I=19.7). It is located at $\alpha=5^{\rm h}31^{\rm m}01^{\rm s}878$, $\delta=-70^{\rm o}04'15''.89$ (equinox 2000.0), which is 0".1 south of its host galaxy. Spectroscopy obtained with the Gemini South telescope (+ GMOS) on 2003 Dec. 22.3 and with the Magellan Clay telescope (+ MagE) on 2008 Dec. 28.3 shows 2003ma to be a very luminous type-IIn supernova, similar to SN 1988Z (Turatto et al. 1993, MNRAS 262, 128). The 2008 spectrum shows an intermediate-width $H\alpha$ line with a FWHM of 5800 km/s. Details will be given in a paper by Rest et al. (2009, Ap.J., submitted).

COMET P/2009 U6 (LINEAR)

K. Kadota, Ageo, Saitama-ken, Japan, reports pre-discovery CCD images of this comet (cf. IAUC 9090), obtained with a 0.25-m f/5 reflector on Oct. 19.80–19.81 UT, showing the object at total mag 16.8 with a 0.4 coma and a tail 0.7 long in p.a. 285°. The following elliptical orbital elements (from 29 observations, Oct. 19–30) appear on MPC 67414:

COMETS C/2009 K13 AND C/2009 K14 (SOHO)

Further to IAUC 9091, additional Kreutz sungrazers have been found on SOHO website images. C/2009 K13 was slightly diffuse and small (mag \sim 8). C/2009 K14 was very diffuse and very faint (mag \sim 8–8.5).

Comet		α_{2000}				MPEC
	May 31.171 31.746					2009-O18 2009-O18
C/2009 K14	31.740	$4\ 31.4$	+20.02	C_2	\mathbf{pr}	2009-018