Circular No. 8828

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COMET C/2007 G1 (LINEAR)

An apparently asteroidal object discovered by the LINEAR survey (discovery observation tabulated below), and posted on the Minor Planet Center's 'NEOCP' webpage, has been found by other astrometrists to have a cometary appearance. G. Sostero and E. Guido (Castellammare di Stabia, Italy, observing remotely with a 0.25-m $f/3.4$ reflector near Mayhill, NM) write that co-adding of 23 unfiltered 60-s exposures from Apr. 11.48 UT shows a small coma of total mag 17.8 nearly $10''$ in diameter, elongated toward p.a. 260°; additional co-added 60-s images by Guido, A. Lepardo, and Sostero (0.45-m $f/4.4$ reflector at Remanzacco, Italy) on Apr. 11.91 show a faint coma nearly $8''$ in diameter. R. Ligustri (Udine, Italy, 0.32-m $f/9$ reflector) reports that ten 120-s images reveal a cometary appearance. P. Birtwhistle (Great Shefford, Berkshire, England, 0.40-m $f/6$ Schmidt-Cassegrain reflector) reports that images taken on Apr. 12.05–12.15 at a scale of $1''$/pixel show a $5''$ coma, extended $6''$ on the southwest side (p.a. $\sim$ 240°).

2007 UT	α_{2000}	δ_{2000}	Mag.
Apr. 10.37946	$18^{\rm h}05^{\rm m}10^{\rm s}.44$	$+33^\circ 53' 44''.3$	18.6

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2007-G37.

$$
\begin{array}{lll}
T = 2009\ \text{Mar.}\ 8.637\ \text{TT} & \omega = 232^\circ.663 & \\
 & \Omega = 72.236 & \text{2000.0} \\
q = 2.46334\ \text{AU} & i = 94.461 &
\end{array}
$$

SUPERNOVAE 2007at AND 2007au

Two supernovae have been discovered on unfiltered CCD frames by W. Li and N. Lee (LOSS/KAIT; cf. *IAUC* 8822). Discovery observations:

SN	2007 UT	α_{2000}	δ_{2000}	Mag.	*Offset*
2007at	Mar. 18.53	$14^{\rm h}51^{\rm m}12^{\rm s}.28$	$-21^\circ 23' 31''.2$	17.7	$7''.7$ E, $7''.8$ S
2007au	Mar. 18.19	7 11 46.11	+49 51 13.4	17.0	$41''$ E, $31''$ S

Additional information is available on the following *Electronic Telegrams*: 2007at in ESO 580-G44, *CBETs* 893, 898, 899, and 900 (type-Ia, discovered $\sim$ 9 days after maximum light); 2007au in UGC 3725, *CBETs* 895, 898, and 900 (type-Ia, discovered a couple of days before maximum).

2007 April 12 *Daniel W. E. Green*