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Central Bureau for Astronomical Telegrams
INTERNATIONAL ASTRONOMICAL UNION
Mailstop 18, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.
IAUSUBS@CFA.HARVARD.EDU or FAX 617-495-7231 (subscriptions)
CBAT@CFA.HARVARD.EDU (science)
URL `http://www.cfa.harvard.edu/iau/cbat.html` ISSN 0081-0304
Phone 617-495-7440/7244/7444 (for emergency use only)

COMET P/2009 T2 (LA SAGRA)

R. Stoss, Visnjan, Croatia, reports the discovery of a diffuse comet with no obvious tail on CCD images taken by J. Nomen in the course of the "La Sagra Sky Survey" with a 0.45-m *f*/2.8 reflector (discovery observation tabulated below). Thirty stacked 90-s follow-up CCD exposures with a 0.40-m *f*/10 reflector at La Sagra on Oct. 12.94–12.96 UT show a drop-shaped coma elongated to the southwest with a 20″ tail in p.a. 240°; the coma is very condensed, almost asteroidal, and the tail is much fainter. Following posting on the Minor Planet Center's 'NEOCP' webpage, R. Miles (Stourton Caundle, Dorset, England, 0.28-m *f*/9.4 Schmidt-Cassegrain reflector) writes that 127 stacked 30-s CCD frames taken on Oct. 13.0 show weak cometary appearance with a narrow tail 25″ long in p.a. 230°.

2009 UT	α_{2000}	δ_{2000}	Mag.	*Observer*
Oct. 12.87132	$1^h44^m15^s.82$	$+21^\circ49'42''.0$	17.0	Nomen

The available astrometry (including pre-discovery Catalina astrometry from Sept. 18, 25, and Oct. 9 found by MPC staff), the following preliminary elliptical orbital elements, and an ephemeris appear on *MPEC* 2009-T39.

$$\begin{array}{lll} T = 2010 \text{ Jan. } 12.815 \text{ TT} & \omega = 215^\circ.448 & \\ e = 0.76875 & \Omega = 215.987 & \Big\}\, 2000.0 \\ q = 1.75499 \text{ AU} & i = 28.102 & \end{array}$$

$$a = 7.58906 \text{ AU} \qquad n^\circ = 0.047144 \qquad P = 20.9 \text{ years}$$

COMET P/2009 Q4 (BOATTINI)

Additional astrometry have shown that this comet (cf. *IAUC* 9069) is of short period, as indicated by the following elements from *MPEC* 2009-T18: T = 2009 Nov. 19.9438 TT, $e = 0.578664$, $q = 1.320671$ AU, $\omega = 320^\circ.0361$, $\Omega = 127^\circ.6603$, $i = 10^\circ.9681$ (equinox 2000.0), $P = 5.55$ years.

COMET P/2009 Q5 (McNAUGHT)

Additional astrometry have shown that this comet (cf. *IAUC* 9070) is of short period, as indicated by the following elements from *MPEC* 2009-T19: T = 2009 Sept. 8.5621 TT, $e = 0.609033$, $q = 2.918346$ AU, $\omega = 209^\circ.2727$, $\Omega = 160^\circ.1369$, $i = 40^\circ.9012$ (equinox 2000.0), $P = 20.39$ years.

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