

Small-Body Database Lookup

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C/2017 K2 (PANSTARRS)

Classification: Hyperbolic Comet SPKID: 1003517 Related Links: Ephemeris (/horizons

/app.html#/?spk=1003517)

Orbit Viewer [show]

Orbit Parameters [hide]

Osculating Orbital Elements

Epoch 2459088.5 (2020-Aug-27.0) TDB Reference: JPL 80 (heliocentric IAU76/J2000 ecliptic)				
Element	Value	Uncertainty (1-sigma)	Units	
е	1.000432648857823	1.8534E-6		
а	-4157.647672927562	17.799	au	
q	1.798801516922625	5.5603E-6	au	
i	87.54501442428581	9.6875E-6	deg	
node	88.26026333043211	1.7324E-5	deg	
peri	236.1717099510239	.00017315	deg	
M	-0.003106311610936874	1.9947E-5	deg	
tp	2459933.413932300963 2022-Dec-19.91393230	.00039553	TDB	
period	not defined	not defined	d	
n	3.676482884448861E-6	2.3609E-8	deg/d	
Q	not defined	not defined	au	

Model Parameters

Parameter	Value	Uncertainty (1-sigma)	Units
A2	-4.239575046339165E-8	4.776E-9	au/d^2
ALN	.0408373333128795		
NK	2.6		

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Home Parameter s (/tools	s/) / Sma l/æl⊌@ y Database Lookup Uncertainty (1-sigma)	Units
NM	2.	
NN	3.	
RO	5.	au

Miscellaneous Details

solution date	2022-Jun-28 07:51:14	
# obs. used (total)	186	
data-arc span	3331 days (9.12 years)	
first obs. used	2013-05-12	
last obs. used	2022-06-25	
planetary ephem.	DE441	
SB-pert. ephem.	SB441-N16	
norm. resid. RMS	.42992	
source	JPL	
producer	Davide Farnocchia	
Earth MOID 1.09209 au		
Jupiter MOID 1.25703 au		
T_jup	0.170	
Nongrav. accels. using CO driven g(r)		

Physical Parameters [hide]

Parameter	Value	Units	Sigma	Reference	Notes
					2 parameter fit
[M1] comet total magnitude	7.8		1.	80	from 6335
					observations,
[K1] comet total magnitude slope	4.5			80	autocmod 3.0b

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SSD Solar System Dynamics

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Site Manager: Ryan Park Site Design: Alan B. Chamberlin URS Clearance: CL#21-4165

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