Home (/) / Tools (/tools/) / Small-Body Database Lookup

# Small-Body Database Lookup

Q

#### show instructions

# C/2021 F1 (Lemmon-PANSTARRS)

Classification: Comet SPKID: 1003834 Related Links: Ephemeris (/horizons/app.html#

/?spk=1003834)

Orbit Viewer [show]

## Orbit Parameters [hide]

#### **Osculating Orbital Elements**

Reference: JPL 9 (heliocentric IAU76/J2000 ecliptic)							
Element	Value	Uncertainty (1-sigma)	Units				
e	0.9958421168768592	2.5039E-6					
a	239.4307787060568	.14449	au				
q	0.9955251939423744	1.5515E-6	au				
i	107.3188084075283	2.9508E-5	deg				
node	203.4468700786883	1.6186E-5	deg				
peri	146.8168001379853	.00013402	deg				
M	359.9300688626377	6.3328E-5	deg				
tp	2459676.367251818967 2022-Apr-06.86725182	9.6326E-5	TDB				
period	1353219.956433483	1225.	d				
	3704.914322884279	3.3539e+0	у				
n	0.0002660321393343977	2.4082E-7	deg/d				
Q	477.8660322181713	.28838	au				

#### **Miscellaneous Details**

solution date	2022-Apr-11 23:22:27 493		
# obs. used (total)			
data-arc span	374 days (1.02 years)		
first obs. used	2021-03-19		
last obs. used	2022-03-28		
planetary ephem.	DE441		

1 of 2 4/15/22, 12:55

SB-pert. ephem. SB441-N16 norm. resid. RMS .50318

source JPL

producer Otto Matic
Earth MOID .0835449 au
Jupiter MOID 1.36334 au

**T\_jup** -0.346

## Physical Parameters [hide]

Parameter	Value	Units	Sigma	Reference	Notes
					2 parameter fit
[M1] comet total magnitude	13.3		8.0	9	from 366
					observations, a
[K1] comet total magnitude slope	7.75			9	autocmod 3.0a

expand table contents



■ Site Map (/sitemap.html)

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

2 of 2 4/15/22, 12:55