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## (19004) Chirayath

### Services:

- [Ephemerides](#)
- [Observation Prediction](#)

### Orbital Information:

Keplerian elements at epoch 53450 ([MJD](#))

	<b>element value</b>	<b>1-sigma variation</b>
a (AU)	2.22874	8.346e-08
eccentricity	0.176546	1.811e-07
inclination (deg)	1.562	1.396e-05
Asc. node (deg)	190.694	0.0007695
Arg. perih. (deg)	128.648	0.0007711
M (deg)	129.356	6.366e-05

Other useful data:

Absolute Magnitude	15.067
Slope parameter	0.15
Perihelion (AU)	1.8353
Aphelion (AU)	2.6222
Asc. node-Earth sep. (AU)	1.42783
Desc. node-Earth sep. (AU)	0.9454
Earth MOID (AU)	0.82334
Orbital period (days)	1215.31

Get the orbital details, including covariance and correlation:

- Near middle of observational arc: (MJD = 52166.1): ([HTML](#)) ([ASCII](#))
- Near present day (MJD = 53450): ([HTML](#)) ([ASCII](#))

*Note: Note that the elements are given with reduced precision in order to be more readable. For full precision please use the machine readable ASCII files, which contain equinoctial (not keplerian) elements and are in a format suitable for [OrbFit](#) input. Also refer to the discussion in the [FAQ](#).*

### Proper elements:

- [Proper elements](#)

### Observational Information:

Optical Astrometry	
RMS of residuals (arcsec)	0.75
Date of first obs. (yr/mo/day)	1992/01/02.282
Date of last obs. (yr/mo/day)	2005/01/06.271
Number of Observations	200
Number Discarded	4
Arc Information	
Arc length (days)	4752.99

Get the observational details: [ASCII file](#)

*Note: The ASCII file is in a format suitable for [OrbFit](#) input.*

### Daily observational circumstances

Ephemeris at epoch 53474 (MJD)

Right Ascension (deg)	86.8971
Declination (deg)	22.0176
V Magnitude	20.37
Solar Elongation (deg)	63.05
Phase (deg)	20.602
Galactic Latitude (deg)	-3.186
Distance from Sun (AU)	2.541
Distance from Earth (AU)	2.833
Apparent motion	
Rate (deg/day)	0.348
Direction (PA deg)	87.709

<b>Uncertainty Ellipse (1-sigma)</b>	
Semimajor axis (arcmin)	0.0013
Semiminor axis (arcmin)	0.0008
Orientation (PA deg)	88.87

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