

## 2014 HT197

First observed at Cerro Tololo-DECam on 2014-04-24.

(Discoverer will be defined when the object is numbered. See [this note](#) on how discoverers are determined.)

## Orbit

Orbit type: Apollo

Near-Earth Object

One opposition object seen prior.

Interactive Orbit Sketch

Note: WebGL enabled browser required.

epoch	2019-04-27.0	semimajor axis (AU)	2.2460675	<a href="#">uncertainty</a>	8
epoch JD	2458600.5	mean anomaly (°)	162.16023	reference	MPO 317871
perihelion date	2017-10-20.17227	mean daily motion (°/day)	0.29279900	observations used	11
perihelion JD	2458046.67227	aphelion distance (AU)	3.615	oppositions	1
argument of perihelion (°)	234.65709	period (years)	3.37	arc length (days)	2
ascending node (°)	39.52668	P-vector [x]	0.07261637	first opposition used	2014
inclination (°)	2.07146	P-vector [y]	-0.90293168	last opposition used	2014
eccentricity	0.6095254	P-vector [z]	-0.42360505	residual rms (arc-secs)	0.11
perihelion distance (AU)	0.8770323	Q-vector [x]	0.99709460	<a href="#">perturbers coarse indicator</a>	M-v
Tisserand w.r.t. Jupiter	3.4	Q-vector [y]	0.07552023	<a href="#">perturbers precise indicator</a>	003Eh
ΔV w.r.t. Earth (km/sec)	6.6	Q-vector [z]	0.00995214	first observation date used	2014-04-24.0
		absolute magnitude	28.6	last observation date used	2014-04-26.0
		phase slope	0.15	computer name	MPCW

JD of orbit computation	2457020.461620
perihelion JD uncertainty (days)	6.3324E-02
argument of perihelion uncertainty (°)	8.2028E-03
ascending node uncertainty (°)	1.7059E-03
inclination uncertainty (°)	1.0942E-02
eccentricity uncertainty	4.3189E-03
perihelion distance uncertainty (AU)	6.0227E-04

Minimum Orbit Intersection Distances (in AU)  
for orbit epoch: 2458200.5, reference: MPO317871

Mercury	0.415282
Venus	0.150201
Earth	0.0035855
Mars	0.0004495
Jupiter	1.53026
Saturn	5.47705
Uranus	15.1568
Neptune	26.3314

## Observations

11 total observations over interval: 2014 04 24.17599 – 2014 04 26.17669

These data are available for [download](#) ([format description](#)).

Date (UT)	J2000 RA	J2000 Dec	Magn	<a href="#">Location</a>	<a href="#">Ref</a>
2014 04 24.17599	14 03 13.51	-09 26 27.2	23.5 V	W84 – Cerro Tololo-DECam	MPS 547824
2014 04 24.17923	14 03 14.09	-09 26 33.8		W84 – Cerro Tololo-DECam	MPS 547824
2014 04 24.18245	14 03 14.67	-09 26 40.3		W84 – Cerro Tololo-DECam	MPS 547824
2014 04 25.16818	14 07 15.75	-10 03 15.4	23.4 V	W84 – Cerro Tololo-DECam	MPS 547824
2014 04 25.17133	14 07 16.44	-10 03 22.9		W84 – Cerro Tololo-DECam	MPS 547824
2014 04 25.17456	14 07 17.19	-10 03 31.1		W84 – Cerro Tololo-DECam	MPS 547824
2014 04 25.17780	14 07 17.93	-10 03 39.2		W84 – Cerro Tololo-DECam	MPS 547824
2014 04 25.18104	14 07 18.66	-10 03 47.3		W84 – Cerro Tololo-DECam	MPS 547824
2014 04 26.17033	14 12 20.08	-10 49 16.2	23.3 V	W84 – Cerro Tololo-DECam	MPS 547824
2014 04 26.17351	14 12 21.02	-10 49 26.3		W84 – Cerro Tololo-DECam	MPS 547824
2014 04 26.17669	14 12 21.93	-10 49 35.8		W84 – Cerro Tololo-DECam	MPS 547824