

EN031213 “Námestovo” Fireball
December 3, 2013, T = 5^h07^m26.9822^s ± 0.0002^s *

Atmospheric trajectory data

	Beginning	Max. light	Terminal
Velocity (km/s)	21.28	-	12.0
Height (km)	91.61	45.9	40.92
Longitude (° E)	21.46822	19.549	19.33286
Latitude (° N)	49.91784	49.458	49.40390
Initial mass (kg)	17.	-	0.
Absolute magnitude	-	-10.8	-
Slope (°)	17.71	-	16.23
Total length (km)/Duration (s)	173.7 / 8.8		
Fireball type/PE	I / -4.55		
EN stations No.	116 Lysá hora, 14 Červená hora, 12 Veselí nad Moravou		

Radiant data (J2000.0)

	Observed	Geocentric	Heliocentric
Right ascension (°)	263.42 ± 0.05	268.59 ± 0.05	-
Declination (°)	25.965 ± 0.013	21.119 ± 0.015	-
Ecliptical longitude (°)	-	-	321.727 ± 0.015
Ecliptical latitude (°)	-	-	19.169 ± 0.012
Initial velocity (km/s)	21.304 ± 0.007	17.834 ± 0.008	38.102 ± 0.012

Orbital data (J2000.0)

a (AU)	2.549 ± 0.007	ω (°)	133.68 ± 0.07
e	0.6608 ± 0.0008	Ω (°)	250.9966
q (AU)	0.8644 ± 0.0003	i (°)	20.217 ± 0.014
Q (AU)	4.233 ± 0.013	Shower	

Note

*Time of the fireball is given for the maximum brightness of the photoelectric record taken by the digital automated fireball observatory (DAFO) at the EN station Lysá hora equipped with the fast photometer (5000 samples/s).