Resource: Phase_function

Compilation of parameters of asteroid phase functions.

For each solution, the SSO identification, the absolute magnitude [H ± (b_H, B_H)] and phase parameters [G1 ± (b_G1, B_G1), G2 ± (b_G2, B_G2)], together with ancillary information on the observation (number of observation, phase coverage, filter, ...) and method are listed.

Description of columns

Column	Type	Description
num	int	Asteroid IAU Number if available
name	str	Asteroid name or designation
H	float	Absolute magnitude
G1	float	Phase parameter G_1 (see Muinonen+2010)
G2	float	Phase parameter G_2 (see Muinonen+2010)
b_H	float	Lower uncertainty on the absolute magnitude
B_H	float	Upper uncertainty on the absolute magnitude
b_G1	float	Lower uncertainty on G_1
B_G1	float	Upper uncertainty on G_1
b_G2	float	Lower uncertainty on G_2
B_G2	float	Upper uncertainty on G_2
N	int	Number of observations used for the fit
phase_min	float	Minimum phase angle in the observations (deg)
phase_max	float	Maximum phase angle in the observations (deg)

Column	Type	Description
rms	float	Root-mean square of the fit residuals (mag)
facility	str	Telescope/survey were observation were taken
name_filter	str	Human-readable description of the filter (B,V,R,J,H,…)
id_filter	str	Unique identifier for the filter (from SVO Filter)
method	str	Type of observations used
select	int	Flag for selection (black list, neutral, forced: -1/0/1)
iddataset	int	Unique dataset identifier from the source.ods file

Methods

The column method only accept a limited number of valid entries, indicating the type of observations used to determine the phase parameters:

- serendipitous : sparse in time, typically from large surveys
- targeted : light curve varibility was corrected at each phase angle