

Resource: `diamalbedo`

Compilation of estimates of the diameter and albedo of asteroids.

For each measurement of the diameter (`diameter` $\pm$ (`err_diameter_up`, `err_diameter_down`) in km) and/or albedo (`albedo` $\pm$ (`err_albedo_up`, `err_albedo_down`)), the SSO identification, thermal parameters (`beaming`, `emissivity`, if needed), and method are listed.

Description of columns

Column	Type	Description
<code>idsso</code>	int	Unique id (let it empty)
<code>num</code>	int	Asteroid IAU Number if available
<code>name</code>	str	Asteroid name or designation
<code>diameter</code>	float	Diameter estimate (km)
<code>err_diameter_up</code>	float	Upper uncertainty on the diameter (km)
<code>err_diameter_low</code>	float	Lower uncertainty on the diameter (km)
<code>albedo</code>	float	Albedo estimate
<code>err_up</code>	float	Upper uncertainty on the albedo
<code>err_low</code>	float	Lower uncertainty on the albedo
<code>beaming</code>	float	Beaming parameter
<code>err_beaming</code>	float	Uncertainty on the beaming parameter
<code>emissivity</code>	float	Thermal emissivity
<code>err_emissivity</code>	float	Uncertainty on the emissivity
<code>selection</code>	int	Flag for selection (black list, neutral, forced: -1/0/1)

Column	Type	Description
<code>method</code>	str	Method used to determine the diameter
<code>iddataset</code>	int	Unique dataset identifier from the source.ods file

Methods

The column `method` only accept a limited number of valid entries, indicating how the diameter and/or albedo were determined:

- Thermal models
 - `STM` : Standard Thermal Model
 - `FRM` : Fast Rotating Model
 - `NEATM` : Near-Earth Asteroid Thermal Model
 - `NESTM` : Night Emission Simulated Thermal Model
 - `TPM` : ThermoPhysical Model
- Shape modeling from multiple data source
 - `KOALA` : direct-imaging, lightcurves, and occultation
 - `ADAM` : direct-imaging, lightcurves, radar, and occultation
 - `SAGE` : lightcurves and direct-imaging
 - `Radar` : from radar echoes
 - `LC-TPM` : lightcurves and infrared photometry
 - `SPACE` : based on a close-encounter by a space mission
- Scaling of shape models from light curves by
 - `LC+TPM` : infrared photometry (via ThermoPhysical Model)
 - `LC+OCC` : stellar occultations
 - `LC+IM` : disk-resolved imaging
- Shape modeled as ellipsoid
 - `TE-IM` : from disk-resolved images
 - `TE-Occ` : from stellar occultations
- Size measurement on the plane of the sky (2D)

- OCC : stellar occultation
 - IM : disk-resolved imaging
 - IM-PSF : diameter estimated from PSF deviation
 - Interferometry: diameter estimated from interferometry
- Albedo only, determined from
 - Polarimetry : degree of polarisation against phase angle
 - PhaseFunction : photometric phase curve