Resource: Thermal_inertia

Compilation of estimates of the thermal inertia of asteroids.

For each measurement of the thermal inertia [TI ± (err_TI_up, err_TI_low) in SI] the SSO identification, and distance to the Sun are listed.

Description of columns

Column	Type	Description
num	int	Asteroid IAU Number if available
name	str	Asteroid name or designation
TI	float	Thermal inertia (SI)
err_TI_up	float	Upper uncertainty on the thermal inertia (SI)
err_TI_low	float	Lower uncertainty on the thermal inertia (SI)
dsun	float	Heliocentric distance of the observations (average, in AU)
selection	int	Flag for selection (black list, neutral, forced: -1/0/1)

Methods

The method is specified for an entire file in the sources.ods. The thermal inertia was determined:

- SPACE : from a close-encounter by a space mission
- STM : using the Standard Thermal Model
- TPM : using a ThermoPhysical model
- LC-TPM : by joint analysis lightcurves and infrared photometry
- LC+TPM : by scaling a lighcurve shape model with infrared photometry
- Yarkosvky_drift : from the measured Yarkovsky effect