

Resource: Masses

Compilation of estimates of the mass of asteroids.

For each measurement of the mass ($\text{mass} \pm (\text{err_mass_up}, \text{err_mass_low})$ in kg) the SSO identification, and method are listed.

Description of columns

Column	Type	Description
<code>num</code>	int	Asteroid IAU Number if available
<code>name</code>	str	Asteroid name or designation
<code>mass</code>	float	Mass estimate (kg)
<code>err_mass_up</code>	float	Upper uncertainty on the mass (kg)
<code>err_mass_low</code>	float	Lower uncertainty on the mass (kg)
<code>method</code>	str	Method used to determine the diameter
<code>selection</code>	int	Flag for selection (black list, neutral, forced: -1/0/1)
<code>bibref</code>	str	Bibcode to identify the dataset in <code>source.ods</code>

Methods

The column `method` only accept a limited number of valid entries, indicating how the mass was determined:

- The Rolls Royce
 - `SPACE` : based on a close-encounter by a space mission
- Case of binary systems

- **Bin-PheMu** : mutual event (occultation and eclipses)
- **Bin-Im** : direct imaging
- **Bin-Radar** : radar echoes on a close-encounter by a space mission
- **Bin-xitau** : direct imaging with **xitau** algorithm
- **Bin-Genoid** : direct imaging with **genoid** algorithm
- Astrometry
 - **DEFLECT** : deflection during a close-encounter
 - **EPHEM** : global ephemerides theory
 - **Yarkovsky** : from the Yarkovsky secular acceleration
- For comets only
 - **Comet-NGF** : from the acceleration by non-gravitational forces
 - **Comet-Break** : from the break-up of the nucleus