Asteroid rotation and shape: gravitational aggregate simulations

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Outline

WORKSHOP on BINARY ASTEROIDS

- Dynamical characterisation:

 statistical inversion for few or sparse data (e.g. costly)
 show constraints, avoid assumption
- Physical characterisation
 shape, density and interior
- Origin:
 - re-accumulation, catastrophic collision
 - CAC, chaos assisted capture

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Binast Binary orbit determination for resolved pairs starting with 3 relative positions (F. Vachier) MLE estimator, and confidence region(s) Takes into account parallax, possibly astrometric binaries and one dimensional data

Figures of equilibrium

- Ellipsoids
 - &&
- Fluid (only compression, no shear) &&
- Incompressible

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