

Thursday, March 21, 2013

[R712]

## POSTER SESSION: SMALL BODY PHYSICS: KEEPING IT TOGETHER

6:00 p.m. Town Center Exhibit Area

Korycansky D. G.

POSTER LOCATION #133

[Structural Modeling of Rubble Piles in Two and Three Dimensions](#) [#1378]

We present results from a new method of modeling the structure of rubble piles.

Durda D. D. Richardson D. C. Asphaug E. Movshovitz N.

POSTER LOCATION #134

[Size Dependence of Coefficient of Restitution: Small-Scale Experiments and the Effects of Rotation](#) [#2263]

We present results of laboratory experiments to determine the coefficient of restitution in low-speed rock-on-rock impacts.

Springmann A. Taylor P. A. Howell E. S. Nolan M. C.

POSTER LOCATION #135

[Are the Radar Scattering Properties of Near-Earth Asteroids Correlated with Size, Shape, or Spin?](#) [#2915]

We report on the ongoing investigation of near-Earth asteroids using the Arecibo Observatory planetary radar system, looking at NEA size and surface roughness.

Lai H. R. Russell C. T. Wei H. Y. Zhang T. L.

POSTER LOCATION #136

[Loss of Co-orbiting Materials in the Orbit of Asteroid 2201 Oljato Deduced from Interplanetary Field Enhancements Records](#) [#1668]

Oljato has lost its co-orbiting materials, which can collide with materials in Venus' orbital plane, producing IFEs detected inside the Oljato sensitive region.

Cotto-Figueroa D. Statler T. S. Richardson D. C. Tanga P.

POSTER LOCATION #137

[Radiation Recoil Effects on the Dynamical Evolution of Asteroids](#) [#2945]

We self-consistently model the YORP effect on the spin states of dynamically evolving aggregates.

Adler J. B. Paige D. A. Schlichting H. E.

POSTER LOCATION #138

[Computing the Diurnal Yarkovsky Drift Rate for a Shape Model](#) [#2527]

We compute Yarkovsky forces using a three-dimensional ray-tracing thermal model that tracks photon momentum from direct and indirect solar and infrared photons.

Ipatov S. I.

POSTER LOCATION #139

[Angular Momenta of Collided Rarefied Preplanetesimals](#) [#1488]

The angular momenta of rarefied preplanetesimals needed for formation of small-body binaries can be obtained at collisions of preplanetesimals.

Voropaev S. A.

POSTER LOCATION #140

[Gravitational Stresses in Hyperion](#) [#1135]

Hyperion is modeled as homogeneous, elastic two-axial ellipsoid subject to self-gravitational stress by means of exact analytical treatment.