

## PRINT-ONLY PRESENTATIONS

## Small Bodies

Bookamer R. Povenmire H. Povenmire K.

*The Occultation of SAO 60107 by (516) Amherstia on Jan. 14, 2002* [#1203]

Asteroid 516 Amherstia occults SAO 60107 on January 14, 2002.

Fauerbach M. Lucas M. P. Mon M. J.

*LISAA — Low Inclination Search for Approaching Asteroids* [#1074]

The Egan Observatory is located at 26.5° North latitude, ideally situated to observe a large portion of the southern celestial sphere. The LISAA project is a search and follow-up observation program of NEOs south of the ecliptic plane.

Filonenko V. S. Churyumov K. I.

*On Phase Dependencies of Cometary Light Curves* [#1117]

The light curves of 12 comets had been constructed and investigated. The statistical significant influence of phase dependencies on the light curves of seven comets had been found. The values of phase coefficient of these comets had been determined.

Golubeva L. F. Shestopalov D. I.

*Albedo (750 nm) – Color (950/750 nm) Diagram for the Moon, Asteroids and Meteorites: Modeling Optical Maturation of the Cosmic Body Surfaces* [#1096]

We show on the albedo-color diagram obtained for the airless cosmic bodies that optical parameters of the primordial unweathered material (meteorites in this case) can move owing to space weathering in ranges known for the Moon and asteroids.

Llorca J. Trigo-Rodríguez J. M. Borovicka J. Fabregat J.

*Chemical Abundances of Rock-forming Elements of Cometary Streams Obtained from Meteor Spectroscopy* [#1029]

Relative chemical abundances of Si, Mg, Fe and Ca obtained from meteor spectroscopy of eight fireballs belonging to well-known cometary streams (Perseid, Cignid, Andromedid, Leonid) are discussed and compared to 1P/Halley dust, IDPs and CI chondrites.

O'Brien D. P. Greenberg R.

*The Main Belt and NEA Size Distributions: Linked Collisional and Dynamical Evolution* [#2018]

We model the combined collisional and dynamical evolution of the main belt and NEA populations, and obtain results that are consistent with observations and other constraints. We discuss the implications for the cratering records on asteroids.

Povenmire H.

*The Occultation of 14 Piscium by Asteroid (51) Nemausa — September 11, 1983* [#1039]

This article is a review of a well-documented occultation of a star by a main belt asteroid.

Povenmire K. I. Povenmire H.

*Newly Discovered Meteor Radiants* [#1202]

Routine photographic patrol of the summer skies revealed five new active meteor radiants.

Sakai T. Tomita N. Nakamura A. M.

*Bidirectional Reflectance of Asteroid Surface Analogues: Quantification of Porosity and Surface Roughness* [#1618]

We have made laboratory measurements of light scattering for powdery layers. We present a systematic relation between bulk porosity and surface roughness. The reflectance of powdery surface is shown to be greatly influenced by the surface structure.

Shestopalov D. I. Sasaki S.

*Calculations of Optical Effects of the Laser Experiment Imitating Space Weathering of the Cosmic Body Surfaces* [#1097]

Scaled absorption coefficient of the submicroscopic metallic iron was obtained with the help of olivine spectra altered by nanosecond laser irradiation in a simulation of planetary space weathering.

Shingareva T. V. Basilevsky A. T. Fisenko A. V. Semjonova L. F. Roshchina I. A. Guseva E. V. Korotaeva N. N.

*Mineralogy and Petrology of Laser Irradiated Artificial Carbonaceous Chondrite: Implication to the Martian Moons and Some Asteroids* [#1321]

The laser pulse irradiation of the CM chondrite simulant and L5 chondrite Tsarev led to their dehydration, formation of melt droplets, their partial crystallization and apparent changing of Fe/Mg ratio thus modelling space weathering on small bodies.