

Thursday, March 20, 2003
POSTER SESSION II
7:00 p.m. Fitness Center

Origins of Planetary Systems

Haghighipour N. Boss A. P.

Gas-Drag Induced Migration of Solids in the Vicinity of a Density Enhancement in a Non-Uniform Solar Nebula [#1971]

We present the results of an extensive numerical study of migration of small solids in the vicinity of density enhancements of a non-uniform solar nebula. We discuss the implications of the results for enhancement of the growth-rate of planetesimals.

Mosqueira I. Estrada P. R.

Planetesimal Break-Up and the Feeding of Solids to the Satellite Disk: Consequences for the Formation Timescale and Composition of the Satellites of Jupiter and Saturn [#1832]

We consider the processes by which the mass contained in Sun-orbiting planetesimals may be deposited in the satellite disk.

Daisaka H. Makino J.

N-Body Simulation of the Uranian Eccentric Rings [#1549]

We investigate the formation and maintenance of the Uranian eccentric rings by N-body simulation of a ring-satellite system. Our simulation demonstrates the formation and evolution of an eccentric ring from an initially circular ring.

Ireland T. R.

Initial $^{182}\text{Hf}/^{180}\text{Hf}$ and W-Isotopic Systematics of the Early Solar System [#1508]

Hf-W systematics are affected by regional metal-silicate fractionation in the solar nebula as well as planetary differentiation.

Basiuk V. A. Kobayashi K.

A Theoretical Study of Vinyl Alcohol Formation in the Interstellar Medium [#1085]

The formation of interstellar vinyl alcohol can be explained based on the reactions of simple, commonly found and abundant species, such as acetylene and acetylene-related radicals HCC and CC.