

PRINT ONLY: COMETS AND KUIPER BELT OBJECTS

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New Peculiarity of Absolute Brightness Secular Variations of Short-Period Comets [#1509]

We found an influence of the 90-year solar activity cycle upon the secular variations of absolute magnitude for short-period comets. This phenomenon can explain the observational fact of non-monotone secular fading of short-period comets.

Juhl R. A. Mardon E. G. Mardon A. A.

Documentary Evidence for the Apparition of a Comet in Late 593 and Early 594 AD [#1184]

This presentation uses documentary evidence in an attempt to establish a prima facie case for two apparitions of a comet in the sixth century. This comet may also have made apparitions in the seventh century and later.

Kobunov A. S.

Searching for Cometary Belts in the Exoplanetary Systems [#1078]

A model of origin of comets in the exosolar systems and a method of localizing of short-period comets in these systems are considered. The maximal ratio of periods of the planet and the comet (after interacting with the planet) is equal to 2.13268.

Slyuta E. N.

Self-Gravity and Rheology of Kuiper Objects by the Example of Cometary Nuclei and Phoebe [#1056]

Kuiper objects are characterized by the lowest value of yield strength among solar system bodies. This is one more example of dependence of transition parameters between small and planetary bodies on composition.