SEMINÁŘ OTF ÚJF, ŘEŽ

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Mathematical treatment of Kirkwood-gap creation

Abstrakt

A brief review of the history of Kepler's problem, and of some less known peculiarities in the dynamics of out Solar system, including chaotic behavior. Distribution of asteroids, with its, originally quite mysterious, Kirkwood gaps. In-depth investigation of the motion of an asteroid in 2/1 resonance with Jupiter, employing a new technique. The results help us understand formation of the corresponding 'Hecuba' gap in and near the resonant region, and also why, under similar circumstances, asteroids tend to pile up, near a resonance, into clusters.

Seminář se koná v pátek 22. 5. 2009 v 10:30 hod. v zasedací místnosti ÚJF Řež