

RESONANT YARKOVSKY EFFECT

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We model orbital evolution of asteroids located inside the J3/2 resonance with Jupiter. We describe a mechanism, how the thermal Yarkovsky effect may systematically change eccentricities of resonant bodies (not semimajor axes, as is usual in the main belt). We have also identified several observed groups, which were most probably evolved this way, namely the Schubart and Hilda families.