LONG-TERM VARIATION OF THE NCLINATION DISTRIBUTION IN THE CLASSICAL KUIPER BELT

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We have intensively carried out numerical integration of the orbits for test particles in the region of the classical Kuiper belt using WHM(Wisdom-Holman Mapping) sympletic integrator from the SWIFT package by Levison & Duncan(1994) based on an algorithm by Wisdom & Holman(1991). Our test particles are divided into two kinds of inclination populations; (1)low inclination($i<15^{\circ}$) and (2)high inclination($i>15^{\circ}$), then these are examined whether to be survived or not after long-term integration. We will present our results of calculation on the inclination distribution of the surviving population under the influence of gravity from Jupiter, Saturn, Uranus, and Neptune.