[ST-03] N-body Simulations of Star Clusters Undergoing Bulge Shocks in Galactic Tidal Field

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We present N-body simulations for rotating and non-rotating star clusters with initial mass function in the galaxy to investigate the influence of internal rotation and the galactic tidal effects on dynamical evolution of globular clusters. These simulations were carried out until the complete disruption of clusters. We considered extremely elongated orbit of clusters in the galaxy which is assumed to be composed of bulge and halo components. After about $2t_{rh,i}$ the mass evolutions of all clusters on the elongated orbit show the characteristic features from bulge shocks. We find that the properties of the tidal tails such as orientation and length are closely related to the change in time of the orbital angular velocity.