

N-body Simulations of the Globular Clusters

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We have performed N-body simulations to study the tidal tails of the globular clusters in the external potential. The galactic potential in our model is contributed by central bulge and outer halo. These components are assumed to be invariant in time in the frame. We investigate the cluster of multi-mass models with a power-law initial mass functions starting with different galactocentric distances as well as ellipticities of orbits. We present the general evolution of the clusters; mass segregation, density profiles, angular momentum, velocity anisotropy and the direction of tidal tails of the clusters.