



Contribution ID: 189

Type: Poster

Tidal disruption events induced by the Kozai-Lidov mechanism

Tuesday, 15 December 2015 15:42 (3 minutes)

We geometrically analyze the evolution of the Kozai-Lidov mechanism induced by an infalling tertiary. This approach enables us to clearly understand how the inner orbits are deformed, in response to the time variation of the related phase-space structure.

We predict that, in a stellar cluster associated with massive black hole binaries, a constituent star could abruptly become highly eccentric, because of a peculiar bifurcation pattern.

Primary author: SETO, Naoki

Co-author: IWASA, Mao (Kyoto University)

Presenter: SETO, Naoki

Session Classification: 16 - Black holes