

Double SMBHs and Double TDEs

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The evolution of main-sequence binaries resided in the galactic centre is influenced a lot by the central supermassive black hole (SMBH). Due to this perturbation, the stars in a dense environment are likely to experience mergers or collisions through secular or non-secular interactions. In this talk, I will discuss our recent study on the dynamics of the stellar binaries at galactic centre, perturbed by another distant SMBH. It is found that the event rate of the stellar tidal disruptions for a close SMBH binary is enhanced significantly than the one without the external SMBH.