
Tidal Disruption Events under the grid

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Abstract

When a star passes a by a black hole, the former can be tidally perturbed and destroyed. The subsequent accretion results in luminous tidal disruption events, which are now routinely observed. In this talk, after a brief introduction on tidal disruption events, I will introduce a new subgrid model to include them in simulations. Using a cosmological simulation, I will finally present the effects of this new model on black holes, and the different predictions we can make on the rate of tidal disruption events.

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