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Modeling disks and emissions of tidal disruption events

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Tidal disruption events, in which stars are torn apart by massive black holes, are ideal laboratories for studying the accretion and emission physics around black holes. In this talk, we will show some of our recent general relativistic magnetohydrodynamic simulations of super-Eddington disks formed in tidal disruptions and their spectra obtained via Monte Carlo radiative transfer codes. We will show how the emissions from tidal disruption events depend on key parameters such as the viewing inclination as well as the accretion rate. These results are useful for understanding the evolution of emissions observed from tidal disruption events.

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