

Review collisional DM

Thursday, 11 July 2024 12:00 (30 minutes)

I will discuss recent advancements in N-body simulations of self-interacting dark matter and their implications for the latest astrophysical observations of diverse galactic systems, including spiral galaxies, ultra-diffuse galaxies, and satellite galaxies of the Milky Way. I will highlight the novel signatures of gravothermal collapse in dark matter halos and explore their detection possibilities through observations of strong lensing systems and supermassive black holes.

Presenter: YU, Hai-Bo (University of California, Riverside)

Session Classification: Plenary