Contribution ID: 183

Type: Oral

Enhanced multi-body annihilation of dark matter

Monday, 20 May 2019 14:20 (20 minutes)

Most indirect dark matter searches consider only signals from decay or two-body annihilation. I will discuss the general scenario where more than two dark matter particles participate in the annihilation process. Such processes can be greatly enhanced at low velocities, and generically have different redshift dependence than standard decay/annihilation signals. I will describe and examine the cosmological and astrophysical constraints on such multi-body annihilation processes.

Primary authors: WU, Chih-Liang (MIT); SLATYER, Tracy; Dr NAMJOO, Mohammad

Presenter: WU, Chih-Liang (MIT)

Session Classification: Dark Matter, Astroparticle Physics

Track Classification: Dark Matter, Astroparticle Physics