

Pulsar origins of the Galactic Centre Excess

Wednesday, 4 December 2019 11:30 (30 minutes)

The center of the Milky Way galaxy provides a promising target to search for signatures of dark matter self-annihilation or decay into Standard Model particles. However, competing high-energy astrophysical processes are complex and must be modeled with care. I will review on-going studies of the so-called “Galactic Center Excess” discovered in Fermi-LAT data. I will discuss recent developments that yield new insights on astrophysical emissions from the galactic bulge, in particular those arising from pulsars. I will discuss their impacts for understanding the origins of the Galactic Center Excess and future ways to test them.

Primary author: HORIUCHI, Shunsaku (Virginia Tech)

Presenter: HORIUCHI, Shunsaku (Virginia Tech)

Session Classification: Plenary

Track Classification: Galactic sources