



Contribution ID: 1179

Type: **Talk**

Neutrino production in the central dark-matter spikes of active galaxies

Tuesday 22 July 2025 17:50 (15 minutes)

Recent multi-messenger observations suggest that high-energy neutrinos may be produced close to central black holes in active galaxies. These regions may host dark-matter (DM) spikes, where the concentration of DM particles is very high. Here we explore the contribution of the DM annihilation to the target photons for the neutrino production, proton-photon interactions, estimate the associated neutrino spectrum and figure out possible future tests of this scenario.

Collaboration(s)

Author: KIVOKURTSEVA, Polina

Presenter: KIVOKURTSEVA, Polina

Session Classification: DM

Track Classification: Dark-Matter Physics