

A Dark Photon window into GeV DM

Thursday 10 July 2025 13:50 (20 minutes)

We study a consistent minimal Dark Abelian Higgs model as the portal to a GeV-scale DM candidate. This scenario has been previously studied in the literature and has been deemed to be ruled out by indirect detection constraints. However, we find that when taking correctly into account the production and resulting abundance of the GeV DM candidate, there is still a viable window in the parameter space in the few GeV mass range that survives the combined constraints from colliders, direct and indirect detection.

Author: FOLDENAUER, Patrick

Presenter: FOLDENAUER, Patrick

Session Classification: Parallel 2