

Majorana Dark Matter at the LHC and IceCube – A Simplified Models Interpretation

Wednesday 30 September 2015 16:05 (15 minutes)

We present an interpretation of searches for dark matter in a simplified model approach. Considering Majorana fermion dark matter and neutral vector mediators with axial-vector interaction we compare the limits obtained in mono-jet searches at the LHC with limits on the spin-dependent scattering cross-section set by the IceCube collaboration. We discuss the validity of the EFT limit and place new bounds on the parameter space of this model.

Primary author: Dr HEISIG, Jan (University of Hamburg)

Presenter: Dr HEISIG, Jan (University of Hamburg)

Session Classification: Particle Phenomenology