



Contribution ID: 72

Type: Oral presentation (young scientists)

## Dark matter and lepton flavour phenomenology and leptogenesis in a singlet-doublet scotogenic model

*Monday 18 July 2022 15:20 (10 minutes)*

I will present an extensive study of a rather generic model of the scotogenic type, providing a solution to the dark matter problem while including radiative generation of neutrino masses. After a short introduction to the model, I will review the main dark matter phenomenology based on a Markov Chain Monte Carlo analysis. I will present the leptogenesis mechanism within this model allowing to provide the observed baryon asymmetry. Finally, I will discuss the contributions to the anomalous magnetic moment of the muon as well as lepton flavour violation, especially their interplay with dark matter aspects.

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**Session Classification:** Parallel 1D - Dark sector