Contribution ID: **6** Type: **not specified**

Global fits of simplified models for dark matter with GAMBIT

Thursday 15 December 2022 10:20 (15 minutes)

Dark matter candidates can arise from a wide range of extensions to the Standard Model. Simplified models with a small number of new particles allow for the optimisation and interpretation of dark matter and collider experiments, without the need for a UV-complete theory. In this talk, I will discuss the results from a recent GAMBIT study of global constraints on vector-mediated simplified dark matter models. I will cover several models with differing spins of the dark matter candidate.

Primary authors: KVELLESTAD, Anders (University of Oslo); CHANG, Christopher; KAHLHOEFER, Felix (Karlsruhe Institute of Technology); WHITE, Martin John (University of Adelaide (AU)); SCOTT, Pat (The University of Queensland); Dr GONZALO, Tomas (Karlsruhe Institute for Technology (KIT))

Presenter: CHANG, Christopher

Session Classification: Reinterpretation studies