

Exploring a Composite Dark Matter Model Using CONTUR and MadAnalysis5

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In this study, we place constraints on a composite t-channel dark matter model using CONTUR and MadAnalysis 5. The model is similar to those currently being studied by the DM working group and is representative of composite dark matter constructions, with a scalar dark matter candidate and three VLQ partners (mediators). We investigate the exclusions obtained from the subprocesses in LO and NLO simulations using both of these frameworks.

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