

Impact of precision calculations in Simplified t channel Dark Matter models

Tuesday 6 December 2022 16:10 (20 minutes)

Precision calculations can impact the parameter space of well motivated dark matter models significantly. In this talk I will discuss the impact of loop calculations, Sommerfeld enhancement and bound state formation effects for t channel dark matter models. I will demonstrate that the combined effect of precision calculations has a significant impact in constraining as well as opening up new regions of parameter space within these models. Finally I will talk about the future prospects of this class of simplified models.

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Session Classification: Dark matter

Track Classification: Dark matter