Contribution ID: **29** Type: **not specified**

Constraining millicharged dark matter with gravitational positivity bounds

Thursday 12 December 2024 14:30 (20 minutes)

Positivity bound is one of the UV-IR consistency conditions which can be derived from fundamental principles such as unitarity and causality. Recently, it has been studied to incorporate gravity effects to the positivity constraints and apply them to various phenomenologies. In this talk, we study the implications of the gravitational positivity bound for dark matter. In particular, we focus on the millicharged dark matter and constrain their parameter spaces.

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Session Classification: Dark Matter