Contribution ID: **74**   Type: **not specified**

Two-Component Dark Matter (Review)

Wednesday 8 June 2022 14:45 (15 minutes)

The study of particle dark matter is of a dramatic importance in both fields particle physics and modern cosmology. It plays a profound rule in understanding the deep structure of nature. However, an abundance of multi-component dark matter models have been studied and investigated over the last decade. And since nature seeks simplicity we choose to review the simplest models and present new interactions that are based on these models such as semi-annihilations and other phenomena such as assisted freeze-out. The aim of this talk is to give a taste of how we can study two-component dark matter models and how to compute their relic densities considering the new interactions.

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Session Classification: Parallel