



Contribution ID: 85

Type: **not specified**

Supernova limits on light dark sectors

Wednesday 24 September 2025 11:20 (20 minutes)

I will discuss recent progress on the understanding of the production of light dark matter in core-collapse supernova explosions. This leads to not only a constraint in the relevant parameter space due to cooling arguments of SN 1987A but also to a range of phenomenological consequences that can open new venues for detection. In particular, we will focus on the application to sub-GeV dark matter candidates

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Session Classification: Morning - 6