



Contribution ID: 32

Type: **Invited talk in the parallel session**

Hunting for light dark matter with gas-based detectors

Tuesday, July 6, 2021 11:01 AM (23 minutes)

In this talk, I'll discuss ideas for new approaches in the hunt for light dark matter with gas-based detectors. I'll show that the sensitivity that may be achievable through the process of electron ionisation of gas targets in a Spherical Proportional Counter is very promising, going beyond current exclusion limits. I'll also pay particular attention to the potential benefits of molecular gas targets.

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Session Classification: Interacting Dark Matter

Track Classification: Dark Matter: Interacting Dark Matter