Contribution ID: **32** Type: **Invited talk in the parallel session**

Hunting for light dark matter with gas-based detectors

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

In this talk, I'll discuss ideas for new approaches in the hunt for light dark matter was 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 in very promising, going beyond current exclusion limits. I'll also pay particular attention to the potential benefits of molecular gas targets.

Primary author: MCCABE, Christopher (King's College London)

Presenter: MCCABE, Christopher (King's College London)

Session Classification: Interacting Dark Matter

Track Classification: Dark Matter: Interacting Dark Matter