



Contribution ID: 4

Type: **not specified**

Looking for starlight underground

Tuesday, 20 August 2024 15:00 (30 minutes)

The dark sector may feature long-range and inelastic interactions that can lead to the formation of dark matter substructure and dark stellar objects.

A general prediction of these scenarios is that dark matter may be shining in the dark photons that mediate this force.

I will describe under which conditions low-threshold dark matter experiments are sensitive to this dark starlight, and discuss the role of the sun as a foreground in these searches.

Finally, I will present a new experimental setup that has the potential to improve the current reach and test new scenarios.

Presenter: ALONSO ALVAREZ, Gonzalo (U Toronto)