



Canadian Association  
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## Overview of Dark Matter Direct Detection

*Tuesday 4 June 2019 08:45 (30 minutes)*

An overview of dark matter detection in the Milky Way galactic halo will be presented, including constraints and cutting-edge searches for dark matter's interactions with nuclei and electrons. The theory of non-relativistic dark matter interactions, connections with early universe cosmology, and the status of underground dark matter experiments will be addressed, along with some new detection methods, including high-recoil energy searches for inelastic dark matter and multiscatter searches for very heavy dark matter.

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**Session Classification:** T1-4 Direct Detection of Dark Matter (PPD) | Détection directe de la matière sombre (PPD)

**Track Classification:** Symposia Day - Dark Matter