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Dark matter searches at SNOLAB [INVITED]

Friday, 16 February 2018 19:00 (30 minutes)

Understanding the nature of Dark Matter is the Holy Grail for many physicists. While the answer to this fundamental question still eludes the scientific community, it could well result in unique proof of physics beyond the Standard Model. Direct detection searches are currently the most powerful way to solve this long lasting mystery.
Over the last decade, dark matter detection techniques have been improving drastically, pushing the sensitivity to unprecedented levels. These great technical successes have brought new challenges. After giving an introduction of the evidences of dark matter, an overview of the diverse experimental detection techniques at SNOLAB and their current status will be presented.

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