



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 2619 Type: **Poster Competition (Graduate Student) / Compétition affiches (Étudiant(e) 2e ou 3e cycle)**

72 - Scintillating Bubble Chamber for Detecting Dark Matter

Tuesday 4 June 2019 17:10 (2 minutes)

The search for dark matter is evolving, and the quest to reach lower cross-sections leads to new technologies. One of the newer proposals involves the use of a bubble chamber which employs noble elements (such as argon and xenon) as the active mass. The switch to these targets opens the possibility for a much lower sensitivity to backgrounds as well as an additional scintillation channel for use in discrimination which opens up the potential for lower mass dark matter to be studied with a lower energy threshold. This talk will introduce the scintillating bubble chamber as well as report on the progress and timeline.

Primary author: Mr HAWLEY HERRERA, Hector

Presenter: Mr HAWLEY HERRERA, Hector

Session Classification: PPD Poster Session & Student Poster Competition Finals (26) | Session d'affiches PPD et finales du concours d'affiches étudiantes (26)

Track Classification: Particle Physics / Physique des particules (PPD)