Contribution ID: **38** Type: **Instrumentation/Hardware**

In-Gas Laser Ablation Source (IGLAS) Development at McGill University

Tuesday 24 August 2021 16:15 (15 minutes)

The Ba-tagging technique will be an upgrade to the nEXO detector that will allow it to extract and identify Ba ions from double beta decay events to help eliminate all background events. The Ba-tagging group at McGill University have previously worked on the Laser Ablation Source (LAS) for ion extraction in vacuum. Currently, the group is making progress towards developing the In-Gas Laser Ablation Source (IGLAS) for further studies in the production and extraction of ions in a controlled gaseous environment. The experiment will also be conducted with various metal targets and gases at high pressures with the goal of eventually ablating a Ba target in high pressure Xe gas.

Author: BAI, Minya

Co-author: Ms GONZALEZ-ESCUDERO, Laura (McGill University)

Presenter: BAI, Minya

Session Classification: Session 8