Canadian Association of Physicists
Association canadienne des physiciens et physiciennes

Contribution ID: **405** Type: **Oral (Non-Student) / Orale (non-étudiant(e))**

Nuclear polarization by optical pumping at TRIUMF

Monday 7 June 2021 17:10 (10 minutes)

The nuclear-polarized beam facility at TRIUMF-ISAC provides radioactive ion beams, highly polarized by laser collinear optical pumping, to several experimental stations. It has successfully delivered 8,9,11Li, most Na isotopes, and 31Mg over the last 20 years for studies in material science, biochemistry, nuclear physics, and fundamental symmetries. An overview of the polarizer facility will be presented and its future development and upgrade will be discussed.

Authors: LI, Ruohong (TRIUMF); Dr LEVY, C. D. Phil (TRIUMF); Dr PEARSON, Matthew (TRIUMF); Dr KIEFL, Rob (TRIUMF); Dr MORRIS, Gerald (TRIUMF); Dr LASSEN, Jens (TRIUMF)

Presenter: LI, Ruohong (TRIUMF)

Session Classification: M4-5 Nuclei & Astrophysics II (DNP) / Noyaux et astrophysique II (DPN)

Track Classification: Nuclear Physics / Physique nucléaire (DNP-DPN)