

# **ACOT Poster Session - October 2022**



## **Report of Contributions**

Contribution ID: 17

Type: **not specified**

## **Studying the Emission of Light from Single Photon Avalanche Diodes using LASERs**

**Presenter:** RAYMOND, Kurtis (TRIUMF/SFU)

**Session Classification:** Science Technology

Contribution ID: **19**

Type: **not specified**

## **Exploring the limits of existence of heavy neutron-deficient nuclei in the $Z=70-82$ region**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** LYKIARDOPOULOU , Marilena

**Session Classification:** Nuclear Physics

Contribution ID: 20

Type: **not specified**

## **Study of sross-shell excitations in $^{28}\text{Mg}$ and $^{32}\text{Si}$ using Doppler shift methods**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** WILLIAMS, Jonathan

**Session Classification:** Nuclear Physics

Contribution ID: 21

Type: **not specified**

## **Beta-decay of $^{68}\text{Mn}$ : Probing the N=40 Island of Inversion**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** UMASHANKAR, Rashmi (TRIUMF)

**Session Classification:** Nuclear Physics

Contribution ID: 22

Type: **not specified**

# EMMA: The Electromagnetic Mass Analyser

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** ANGUS, Cameron

**Session Classification:** Nuclear Physics

Contribution ID: 23

Type: **not specified**

## **Studying the evolution of the metallic state of LaNiO<sub>3</sub> from a single crystal to superlattices using <sup>8</sup>Li b-detected NMR**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** KARNER, Victoria

**Session Classification:** Molecular and Materials Science

Contribution ID: 24

Type: **not specified**

## Upgrading the ATLAS detector at the LHC: New Small Wheels

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** MCCRACKEN, Callum

**Session Classification:** Particle Physics, Science Technology, & Scientific Computing



Contribution ID: 25

Type: **not specified**

## **Machine Learning for Hyper-Kamiokande's Water-Cherenkov Detectors**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** PROUSE, Nick (TRIUMF)

**Session Classification:** Particle Physics, Science Technology, & Scientific Computing

Contribution ID: 26

Type: **not specified**

## **The TRIUMF UltraCold Advanced Neutron source and electric dipole moment experiment**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** SCHREYER, Wolfgang (TRIUMF)

**Session Classification:** Particle Physics, Science Technology, & Scientific Computing

Contribution ID: 27

Type: **not specified**

## **Projected Sensitivities for Future Upgrade Scenarios of SuperCDMS SNOLAB**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** FASCIONE, Eleanor (TRIUMF/Queen's University)

**Session Classification:** Particle Physics, Science Technology, & Scientific Computing

Contribution ID: 28

Type: **not specified**

# **Towards Reliable Nuclear Matrix Elements for Neutrinoless Double Beta Decay with Ab initio Nuclear Theory**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** BELLEY, Antoine (TRIUMF/UBC)

**Session Classification:** Theory

Contribution ID: 29

Type: **not specified**

## **Nuclear Observables as Probes of Neutrinoless Double-Beta Decay**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** JOKINIEMI, Lotta (TRIUMF)

**Session Classification:** Theory

Contribution ID: 30

Type: **not specified**

## Ubiquitous Spin Freezing in the Superconducting State of UTe<sub>2</sub>

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** AZARI, Nasrin

**Session Classification:** Molecular and Materials Science

Contribution ID: 32

Type: **not specified**

## **Triaza-18-crown-6 chelators for theranostic application: TRIPA, TRIHOPO and TRIAMIDE**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** FIACCABRINO, Desiree

**Session Classification:** Life Sciences

Contribution ID: 33

Type: **not specified**

## **Improving the chemical purity and specific activity of the $^{203}\text{Pb}/^{212}\text{Pb}$ theranostic pair**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** MCNEIL, Brooke (TRIUMF)

**Session Classification:** Life Sciences



Contribution ID: 34

Type: **not specified**

## **Improved isotope intensity and purity from a new spallation-driven proton-to-neutron converter target at ISAC**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** EGORITI, Luca (TRIUMF)

**Session Classification:** Accelerator Sciences

Contribution ID: 35

Type: **not specified**

## **Electron cyclotron resonance ion source charge breeder studies for performance optimization**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** ADEGUN, Joseph

**Session Classification:** Accelerator Sciences

Contribution ID: 36

Type: **not specified**

# **A Prototype Compact Accelerator Driven Neutron Source for Canada Supporting Medical and Scientific Applications**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** MAHARAJ, Dalini (TRIUMF)

**Session Classification:** Accelerator Sciences

Contribution ID: 37

Type: **not specified**

# **A Temperature Mapping System for Coaxial Superconducting Radio Frequency Resonators**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** FEARN, Lauren

**Session Classification:** Accelerator Sciences

Contribution ID: **38**

Type: **not specified**

## **Dust Migration and Suppression of Field Emission in SRF Cavities**

*Tuesday, 25 October 2022 11:00 (1 hour)*

**Presenter:** MAHON, Aveen

**Session Classification:** Accelerator Sciences