



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 2807

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

Gamma-Ray Spectroscopy at the Limits

Tuesday, June 4, 2019 1:45 PM (30 minutes)

The study of nuclei far from stability is one of the most active and challenging areas of nuclear structure physics. Studies of the most exotic neutron-rich isotopes require an unprecedented combination of beam intensities and detection sensitivity, which will soon be realized in the United States at the Facility for Rare Isotope Beams, with γ -ray spectrometers such as GRETA. The GRETINA array, being operated at NSCL and ATLAS at ANL is already pushing forward the limits of such measurements, with impacts in basic nuclear structure, nuclear astrophysics and applications. I will present an overview of the program of GRETINA/GRETA and highlight a few examples of the compelling physics being pursued.

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Session Classification: T3-3 Nuclear Astrophysics/Structure and Medical Isotopes in honour of Prof. John D'Auria PM-1 (DNP) | Astrophysique nucléaire / Structure et isotopes médicaux en hommage au prof. John D'Auria PM-1 (DPN)

Track Classification: Symposia Day - Nuclear Astrophysics and Medical Isotopes (in honour of Prof. John D'Auria)