

Winter Nuclear & Particle Physics Conference - 2024

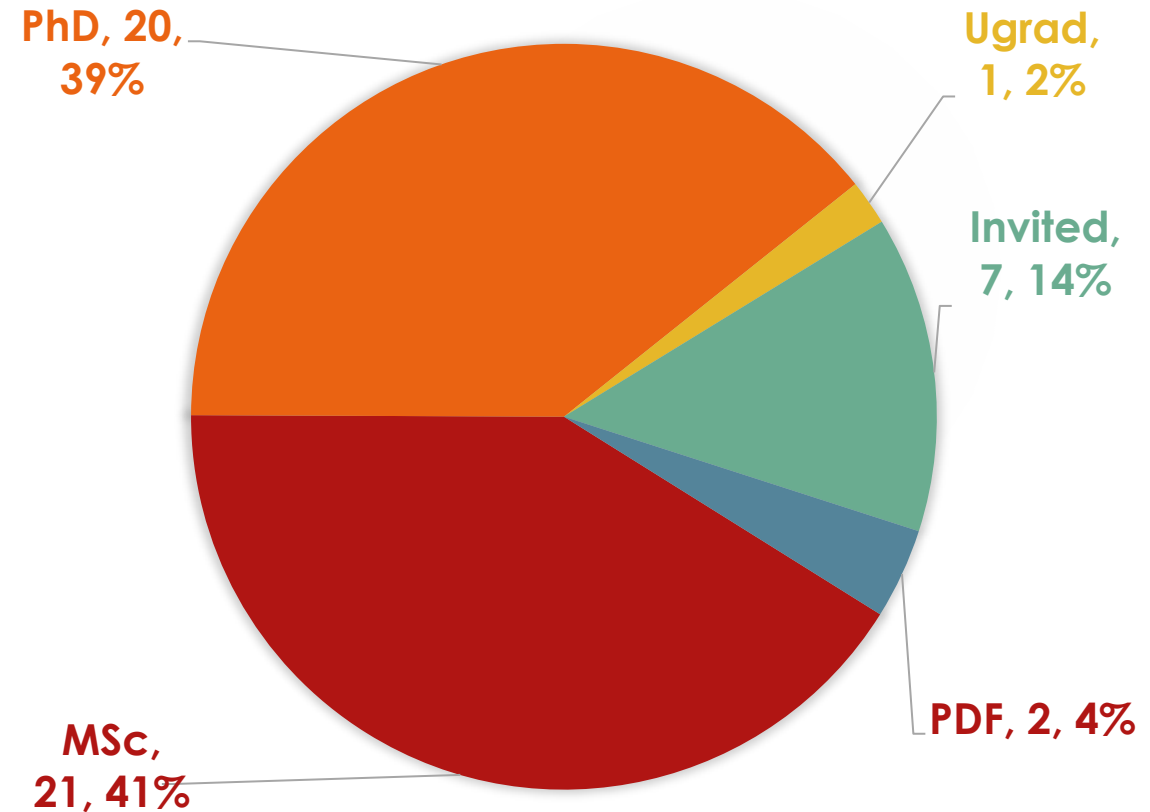


Bromont, Quebec

McGill University, SNOLAB, TRIUMF

THANK YOU!

- ▶ For your participation
- ▶ For the excellent and informative presentations
- ▶ To the session chairs
- ▶ To the organizing committee
- ▶ To the presentation judges
- ▶ For the background support
 - ▶ Hussain, David, Samin, Sandhya, Regan, Sarah, Jon, Rane, Michael
 - ▶ To Jana!
- ▶ To the sponsors



SPONSORS



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Physics Department – Département de Physique



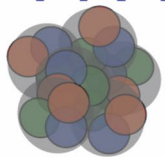
Arthur B. McDonald

Canadian Astroparticle Physics Research Institute



INSTITUTE OF
PARTICLE
PHYSICS

C I N P



I C P N

**Canadian Institute of
Nuclear Physics**

**Institut canadien de
physique nucléaire**





**Canadian Association
of Physicists**

**Particle Physics Division (PPD)
Division of Nuclear Physics (DNP)**

Student Awards

Third Place Experiment - \$200

“

  THE UNIVERSITY OF BRITISH COLUMBIA

**Highly-Charged Radioactive Molecules:
New Opportunities in the Search for a
Permanent Electric Dipole Moment**

Rane Simpson
University of British Columbia (UBC) / TRIUMF

2024-02-18

Discovery,
accelerated

Third Place Experiment - \$200

“

SEARCH FOR EMERGING JETS WITH THE ATLAS DETECTOR AT THE LHC

WINTER NUCLEAR & PARTICLE PHYSICS CONFERENCE

IAN RAMIREZ-BEREND

17 FEBRUARY 2024



Second Place Experiment - \$300

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TRIUMF

**Through Thick and Tin:
Investigating Tin Isotopes
Approaching $N=Z$
Nuclei**

Annabelle Czihaly
MSc Student, University of Victoria

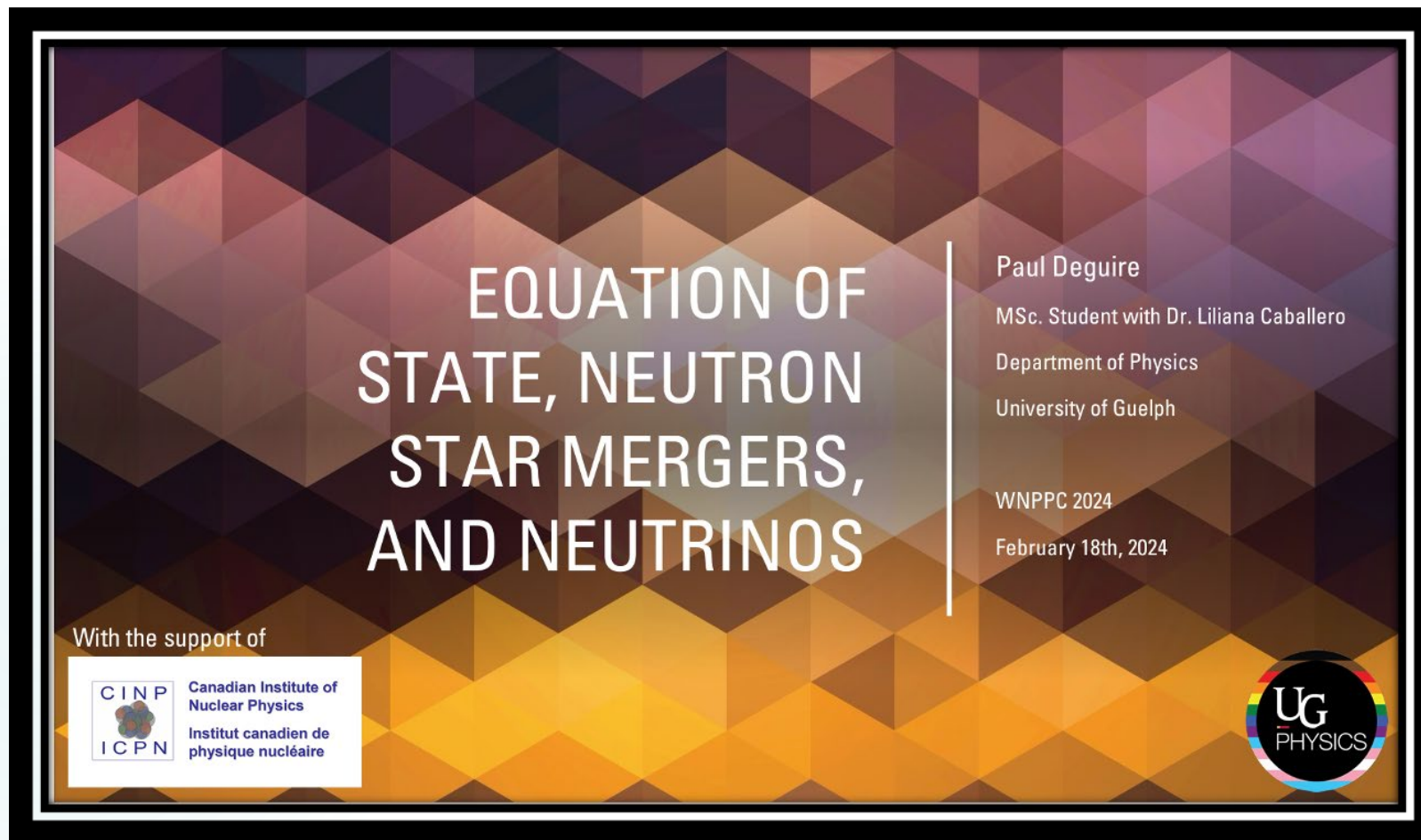
2024-02-18

University of Victoria

CINP Canadian Institute of Nuclear Physics
ICPN Institut canadien de physique nucléaire

Discovery, accelerated

First Place Theory - \$500




The award certificate features a background of a colorful geometric pattern of triangles in shades of purple, blue, and orange. The text is centered and presented in a clean, white, sans-serif font. A vertical white line separates the title from the recipient's name and affiliation. Logos for the Canadian Institute of Nuclear Physics and the University of Guelph are positioned at the bottom corners.


EQUATION OF
STATE, NEUTRON
STAR MERGERS,
AND NEUTRINOS

Paul Deguire
MSc. Student with Dr. Liliana Caballero
Department of Physics
University of Guelph

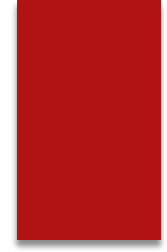
WNPPC 2024
February 18th, 2024

With the support of

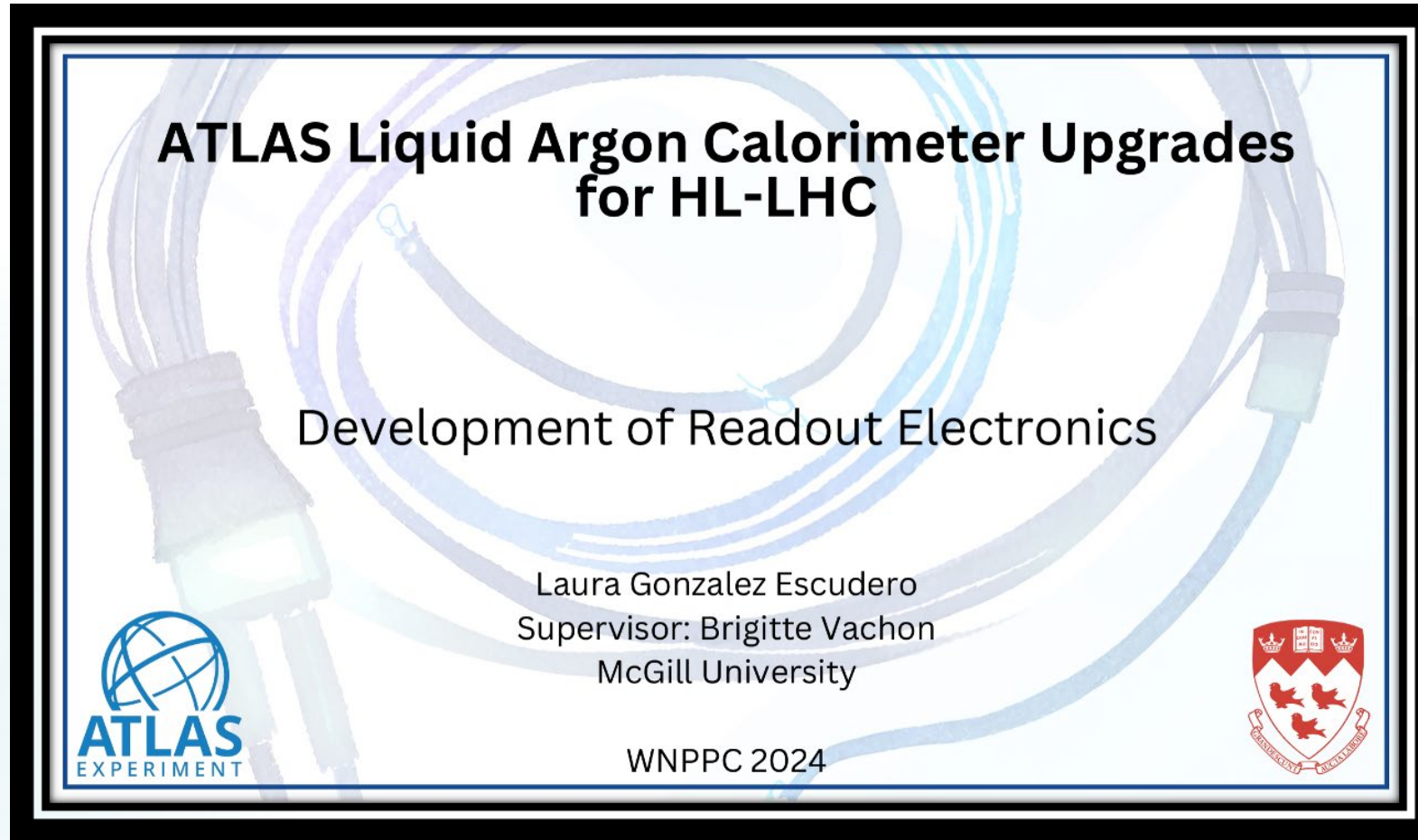
 Canadian Institute of Nuclear Physics
Institut canadien de physique nucléaire



First Place Experiment - \$500



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**ATLAS Liquid Argon Calorimeter Upgrades
for HL-LHC**

Development of Readout Electronics

Laura Gonzalez Escudero
Supervisor: Brigitte Vachon
McGill University

WNPPC 2024



The poster features a background image of blue and white cables with connectors. The ATLAS Experiment logo is in the bottom left, and the McGill University crest is in the bottom right.



GRIDS 2024

Graduate Instrumentation and Detector School

Lectures and Hands-on experience covering detection principles and operation for:

nuclear physics
particle physics
astroparticle physics

Some travel support available



June
3-14



at:
TRIUMF
Vancouver, BC, Canada

Find out more at: grids.triumf.ca

Speakers:

Joseph Bramante (Queen's)

Thomas Brunner (McGill)

Miriam Diamond (UToronto)

Shohini Ghose (Wilfred Laurier)

Ziqing Hong (UToronto)

Blair Jamieson (Winnipeg)

Michael Kagan (SLAC)

Katie Mack (PI)

Scott Oser (UBC)

Stephen Sekula (SNOLAB/Queen's)

Sarah Shandera (PennState)

Daniel Stolarski (Carleton)

Chris Thome (NOSMU)

Jeanne Wilson (Kings College, London)

Topics:

Standard Model Physics and Beyond

Statistics & Computing for Particle Physics

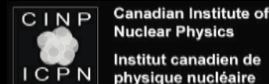
Dark Matter Candidates and Detection

Neutrinos Physics

Long Baseline Neutrino Measurements

Neutrinoless Double Beta Decay

Focused Lectures on Underground Topics



“ Thank you for a
great conference!



WNPPC 2025 will be at Banff, AB!