

**WNPPC2020 - 57th Winter
Nuclear Particle Physics
Conference**

Report of Contributions

Contribution ID: 51

Type: **not specified**

Conference Opening

Thursday, 13 February 2020 19:00 (15 minutes)

Presenter: JAMIESON, blair (University of Winnipeg)

Session Classification: Feb. 13 Evening Session

Contribution ID: 52

Type: **not specified**

Higgs boson physics and upgrade work with ATLAS at the Large Hadron Collider

Thursday, 13 February 2020 19:15 (30 minutes)

Presenter: Dr DAVID, Claire (DESY)

Session Classification: Feb. 13 Evening Session

Contribution ID: 53

Type: **not specified**

Analysis of Higgs boson decays to two W bosons with the ATLAS experiment

Thursday, 13 February 2020 19:45 (15 minutes)

Presenter: Mr JAEGER, Benjamin (Simon Fraser University)

Session Classification: Feb. 13 Evening Session

Contribution ID: 54

Type: **not specified**

Search for mono-Z signature dark matter with the ATLAS detector at the LHC

Thursday, 13 February 2020 20:00 (15 minutes)

Presenter: TAYLOR, Samantha (University of Victoria)

Session Classification: Feb. 13 Evening Session

Contribution ID: 55

Type: **not specified**

Event Reconstruction using the Global Particle Flow Algorithm for the ATLAS Experiment

Thursday, 13 February 2020 20:15 (15 minutes)

Presenter: MILLER, Laura (Carleton University)

Session Classification: Feb. 13 Evening Session

Contribution ID: 56

Type: **not specified**

From Quarks to Neutrinos

Friday, 14 February 2020 08:30 (30 minutes)

Presenter: Ms ILIC, Nikolina (Institute of Particle Physics)

Session Classification: Feb. 14 Morning Session

Contribution ID: 57

Type: **not specified**

The SNO+ Scintillator Fill

Friday, 14 February 2020 09:00 (15 minutes)

Presenter: Mr TAM, Benjamin (Queen's University)

Session Classification: Feb. 14 Morning Session

Contribution ID: 58

Type: **not specified**

Ba Daughter Tagging as a Method for Background Rejection Technique for nEXO

Friday, 14 February 2020 12:00 (15 minutes)

Presenter: Dr CHAMBERS, Christopher (McGill University)

Session Classification: Feb. 14 Morning Session

Contribution ID: 59

Type: **not specified**

A novel technique for ultracold neutron transmission measurements

Friday, 14 February 2020 09:45 (15 minutes)

Presenter: Mr VANBERGEN, Sean (TRIUMF)

Session Classification: Feb. 14 Morning Session

Contribution ID: **60**

Type: **not specified**

The NEWS-G light Dark Matter search experiment: Current status and preparation for SNOLAB

Friday, 14 February 2020 09:30 (15 minutes)

Presenter: Mr DURNFORD, Daniel (University of Alberta)

Session Classification: Feb. 14 Morning Session

Contribution ID: **61**

Type: **not specified**

Environmental Magnetic Fields for the Neutron Electric Dipole Moment Experiment at TRIUMF

Friday, 14 February 2020 10:30 (15 minutes)

Presenter: Mrs LAVVAF, Maedeh (Presenter)

Session Classification: Feb. 14 Morning Session

Contribution ID: 62

Type: **not specified**

Decreasing the measurement time of the neutron electric dipole moment experiment at TRIUMF

Friday, 14 February 2020 10:45 (15 minutes)

Presenter: Mr SIDHU, Steve (SFU/TRIUMF)

Session Classification: Feb. 14 Morning Session

Contribution ID: 63

Type: **not specified**

Simulation and Data Comparison of Ultracold Neutron Experiments for TUCAN Collaboration

Friday, 14 February 2020 11:00 (15 minutes)

Presenter: Ms BELL, Beryl (TRIUMF, McGill University)

Session Classification: Feb. 14 Morning Session

Contribution ID: 64

Type: **not specified**

Radon mitigation for the NEWS-G Dark Matter Detector

Friday, 14 February 2020 11:15 (15 minutes)

Presenter: Mr O'BRIEN, Patrick (University of Alberta)

Session Classification: Feb. 14 Morning Session

Contribution ID: 65

Type: **not specified**

Propagation of Muons at SNOLAB

Friday, 14 February 2020 11:30 (15 minutes)

Presenter: Mr WOODLEY, William (University of Alberta)

Session Classification: Feb. 14 Morning Session

Contribution ID: 66

Type: **not specified**

Search for dark matter and neutrinos with the Scintillating Bubble Chamber (SBC)

Friday, 14 February 2020 11:45 (15 minutes)

Presenter: Dr PAL, SUMANTA (University of Alberta)

Session Classification: Feb. 14 Morning Session

Contribution ID: 67

Type: **not specified**

MoEDAL-MAPP Detector Physics Performance Benchmarks

Friday, 14 February 2020 09:15 (15 minutes)

Presenter: Mr STAELENS, Michael (University of Alberta)

Session Classification: Feb. 14 Morning Session

Contribution ID: **68**

Type: **not specified**

Multi-messenger astrophysics

Friday, 14 February 2020 19:00 (30 minutes)

Presenter: Prof. SIEGEL, Daniel (Perimeter Institute for Theoretical Physics and the University of Guelph)

Session Classification: Feb. 14 Evening Session

Contribution ID: 69

Type: **not specified**

Development of multi-detector systems for gamma-ray coincidence measurements

Friday, 14 February 2020 19:30 (15 minutes)

Presenter: GASCOINE, Melanie (SFU)

Session Classification: Feb. 14 Evening Session

Contribution ID: 70

Type: **not specified**

Ion transport simulations for the TITAN experiment

Friday, 14 February 2020 19:45 (15 minutes)

Presenter: Mr JAVAJI, Abhilash (TRIUMF)

Session Classification: Feb. 14 Evening Session

Contribution ID: 71

Type: **not specified**

Investigation of resonance states in ^{11}Li

Friday, 14 February 2020 20:00 (15 minutes)

Presenter: Mr SINGH, Mukhwinder (student)

Session Classification: Feb. 14 Evening Session

Contribution ID: 72

Type: **not specified**

Correcting Signal Saturation in DEAP-3600

Friday, 14 February 2020 20:30 (15 minutes)

Presenter: Mr MCLAUGHLIN, Joe (Royal Holloway University of London/TRIUMF)

Session Classification: Feb. 14 Evening Session

Contribution ID: 73

Type: **not specified**

Testing exotic cosmology models with LISA

Friday, 14 February 2020 20:45 (15 minutes)

Presenter: Mrs CORMAN, Maxence (PI/UW)

Session Classification: Feb. 14 Evening Session

Contribution ID: 74

Type: **not specified**

Dark Matter Detection with SuperCDMS

Friday, 14 February 2020 21:00 (15 minutes)

Presenter: Mr BEZERRA, Lucas (UBC)

Session Classification: Feb. 14 Evening Session

Contribution ID: 75

Type: **not specified**

The search for CLFV at BELLE II

Friday, 14 February 2020 21:15 (15 minutes)

Presenter: Mr SHILLINGTON, Trevor (McGill University)

Session Classification: Feb. 14 Evening Session

Contribution ID: 76

Type: **not specified**

Dark Matter: Direct Detection Searches

Saturday, 15 February 2020 08:30 (30 minutes)

Presenter: Prof. DIAMOND, Miriam (University of Toronto)

Session Classification: Feb. 15 Morning Session

Contribution ID: 77

Type: **not specified**

Simulating a new complementary detector for DESCANT

Saturday, 15 February 2020 09:00 (15 minutes)

Presenter: BIDAMAN, Harris (University of Guelph)

Session Classification: Feb. 15 Morning Session

Contribution ID: 78

Type: **not specified**

Status of DEAP-3600 at SNOLAB

Saturday, 15 February 2020 09:15 (15 minutes)

Presenter: Dr PAL, SUMANTA (University of Alberta)

Session Classification: Feb. 15 Morning Session

Contribution ID: 79

Type: **not specified**

Explosion Energies, Ages and Densities of Galactic Supernovae

Saturday, 15 February 2020 09:30 (15 minutes)

Presenter: Prof. LEAHY, Denis (University of Calgary)

Session Classification: Feb. 15 Morning Session

Contribution ID: **80**

Type: **not specified**

Nonperturbative Extraction of the Effective Mass in Neutron Matter

Saturday, 15 February 2020 09:45 (15 minutes)

Presenter: Mr ISMAIL, Nawar (University of Guelph)

Session Classification: Feb. 15 Morning Session

Contribution ID: **81**

Type: **not specified**

Charged pi-Meson Studies at Jefferson Lab

Saturday, 15 February 2020 10:30 (15 minutes)

Presenter: Mr USMAN, Ali (University of Regina)

Session Classification: Feb. 15 Morning Session

Contribution ID: **82**

Type: **not specified**

Kaon Electromagenetic Form Factor

Saturday, 15 February 2020 10:45 (15 minutes)

Presenter: Mr VIJAY KUMAR, Vijay (University of Regina)

Session Classification: Feb. 15 Morning Session

Contribution ID: **83**

Type: **not specified**

Deep Exclusive π^- Production with SoLID

Saturday, 15 February 2020 11:00 (15 minutes)

Presenter: Dr KAY, Stephen (University of Regina)

Session Classification: Feb. 15 Morning Session

Contribution ID: **84**

Type: **not specified**

PICO Bubble Chambers: Past, Present, and Future

Saturday, 15 February 2020 11:15 (15 minutes)

Presenter: Mr MOORE, Colin (Queen's University)

Session Classification: Feb. 15 Morning Session

Contribution ID: 85

Type: **not specified**

Precision Measurements on Antihydrogen using the ALPHA-g Apparatus

Saturday, 15 February 2020 11:30 (15 minutes)

Presenter: Ms WOOSAREE, Pooja (University of Calgary)

Session Classification: Feb. 15 Morning Session

Contribution ID: **86**

Type: **not specified**

A Cosmic Ray Veto System for the ALPHA- g Experiment

Saturday, 15 February 2020 11:45 (15 minutes)

Presenter: Mr SMITH, Gareth (UBC/TRIUMF)

Session Classification: Feb. 15 Morning Session

Contribution ID: 87

Type: **not specified**

Magnetometry for Gravitational Measure- ments of Antihydrogen with ALPHA-g

Saturday, 15 February 2020 12:00 (15 minutes)

Presenter: Mr EVETTS, Nathan (UBC)

Session Classification: Feb. 15 Morning Session

Contribution ID: **88**

Type: **not specified**

Recent Studies of Astrophysical Reactions at ISAC

Saturday, 15 February 2020 19:00 (30 minutes)

Presenter: Mr WILLIAMS, Matthew (TRIUMF)

Session Classification: Feb. 15 Evening Session

Contribution ID: **89**

Type: **not specified**

Primary electron drift time simulation in spherical proportional counter

Saturday, 15 February 2020 19:30 (15 minutes)

Presenter: Ms DENG, Yuqi (University of Alberta)

Session Classification: Feb. 15 Evening Session

Contribution ID: **90**

Type: **not specified**

Decay of a bound muon to a bound electron

Saturday, 15 February 2020 19:45 (15 minutes)

Presenter: Prof. ASLAM, Muhammad Jamil (University of Alberta)

Session Classification: Feb. 15 Evening Session

Contribution ID: 91

Type: **not specified**

Applied Quantum Annealing for Track Re- construction in HEP

Saturday, 15 February 2020 20:00 (15 minutes)

Presenter: Mr REID, Parker (Simon Fraser University)

Session Classification: Feb. 15 Evening Session

Contribution ID: 92

Type: **not specified**

From odd-even staggering to the pairing gap in neutron matter

Saturday, 15 February 2020 20:30 (15 minutes)

Presenter: Mr PALKANOGLU, Georgios (University of Guelph)

Session Classification: Feb. 15 Evening Session

Contribution ID: 93

Type: **not specified**

Nuclear Recoil Calibration at TUNL

Saturday, 15 February 2020 20:45 (15 minutes)

Presenter: Mr DE BRIENNE, Francois (Université De Montréal)

Session Classification: Feb. 15 Evening Session

Contribution ID: 94

Type: **not specified**

Analysis of electron drift properties and fluctuations for NEWS-G

Saturday, 15 February 2020 21:00 (15 minutes)

Presenter: Mr COQUILLAT, Jean-Marie (Queen's University)

Session Classification: Feb. 15 Evening Session

Contribution ID: 95

Type: **not specified**

Investigation of wavelength shifting materi- als in an active helium target

Saturday, 15 February 2020 21:15 (15 minutes)

Presenter: Mr PERRY, Michael (Mount Allison University)

Session Classification: Feb. 15 Evening Session

Contribution ID: 96

Type: **not specified**

The Intermediate Water Cherenkov Detector for Hyper-Kamiokande

Sunday, 16 February 2020 08:30 (30 minutes)

Presenter: Mr PAVIN, Matej (TRIUMF)

Session Classification: Feb. 16 Morning Session

Contribution ID: 97

Type: **not specified**

High-Precision Half-life Measurement of ^{14}O

Sunday, 16 February 2020 09:00 (15 minutes)

Presenter: Ms SHARMA, Shivani (University of Regina)

Session Classification: Feb. 16 Morning Session

Contribution ID: 98

Type: **not specified**

High-Precision Branching Ratio Measurement and Spin Assignment Implications for ^{62}Ga Superallowed Beta Decay

Sunday, 16 February 2020 09:15 (15 minutes)

Presenter: Mr MACLEAN, Andrew (University of Guelph)

Session Classification: Feb. 16 Morning Session

Contribution ID: 99

Type: **not specified**

Dipositronium annihilation into a single photon

Sunday, 16 February 2020 09:30 (15 minutes)

Presenter: Mr MUBASHER, Muhammad (University of Alberta)

Session Classification: Feb. 16 Morning Session

Contribution ID: **100**

Type: **not specified**

Single photon decay of the positronium ion

Sunday, 16 February 2020 09:45 (15 minutes)

Presenter: Mr RAHMAN MIR, Md Samiur (University of Alberta)

Session Classification: Feb. 16 Morning Session

Contribution ID: **101**

Type: **not specified**

Student prizes / conference close

Sunday, 16 February 2020 10:30 (30 minutes)

Presenter: JAMIESON, blair (University of Winnipeg)

Session Classification: Feb. 16 Morning Session