

**54th Winter Nuclear Particle
Physics Conference
(WNPPC2017)**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Opening remarks

Presenter: Prof. LEFEBVRE, Michel (University of Victoria)

Contribution ID: 1

Type: **not specified**

Opening remarks

Thursday, 16 February 2017 19:00 (15 minutes)

Presenter: Prof. LEFEBVRE, Michel (University of Victoria)

Contribution ID: 2

Type: **not specified**

Inner Tracker Detector Advances

Thursday, 16 February 2017 19:15 (30 minutes)

Presenter: Dr HESSEY, Nigel P.

Contribution ID: 3

Type: **not specified**

Proposed CMOS-based Sensors for the ATLAS Detector: CHESS-2

Thursday, 16 February 2017 19:45 (15 minutes)

Presenter: NEWHOUSE, Robin

Contribution ID: 4

Type: **not specified**

Investigations of Calorimeter Clustering in ATLAS Using Machine Learning

Thursday, 16 February 2017 20:00 (15 minutes)

Presenter: NIEDERMAYER, Graeme

Contribution ID: 5

Type: **not specified**

Neutral Hadron Particle Identification using CsI(Tl) Scintillation Pulse Shape Analysis

Thursday, 16 February 2017 20:15 (15 minutes)

Presenter: LONGO, Savino

Contribution ID: 6

Type: **not specified**

BEAST-II: Measurement of Machine-Induced Backgrounds during Commissioning of SuperKEKB

Thursday, 16 February 2017 20:30 (15 minutes)

Presenter: BEAULIEU, Alexandre

Contribution ID: 7

Type: **not specified**

Accelerator Physics Developments for Rare Isotope Facilities

Friday, 17 February 2017 08:30 (30 minutes)

Presenter: Dr KESTER, Oliver (TRIUMF)

Contribution ID: 8

Type: **not specified**

Design and Simulation of Beam-Background Monitors in the Vicinity of the Electromagnetic Calorimeter for the Belle II Experiment

Friday, 17 February 2017 09:00 (15 minutes)

Presenter: FODOR, Andrea

Contribution ID: 9

Type: **not specified**

Calculation of Isotope Rates for Radioactive Beam Production

Friday, 17 February 2017 09:15 (15 minutes)

Presenter: GARCIA, Fatima H.

Contribution ID: 10

Type: **not specified**

Simulation of Optical Pumping in TRIUMF's Collinear Laser Spectroscopy Experiment

Friday, 17 February 2017 09:30 (15 minutes)

Presenter: REFOUR TANNENBAUM, Julien

Contribution ID: 11

Type: **not specified**

Simulating the DESCANT Neutron Detection Array with the Geant4 Toolkit

Friday, 17 February 2017 09:45 (15 minutes)

Presenter: TURKO, Joseph

Contribution ID: 12

Type: **not specified**

Ion Trapping at Rare-Isotope-Beam Facilities

Friday, 17 February 2017 10:15 (30 minutes)

Presenter: Dr KWIATKOWSKI, Anna

Contribution ID: 13

Type: **not specified**

Towards N = 82 r-Process Waiting Point: Precision Atomic Mass Measurements of 125–127Cd

Friday, 17 February 2017 10:45 (15 minutes)

Presenter: LEISTENSCHNEIDER, Erich

Contribution ID: 14

Type: **not specified**

Study of 22 Ne and 28 Mg Excited States using Fusion-Evaporation and Doppler Shift Measurements

Friday, 17 February 2017 11:00 (15 minutes)

Presenter: WILLIAMS, Jonathan

Contribution ID: 15

Type: **not specified**

Single Particle Structure of Exotic Strontium Isotopes

Friday, 17 February 2017 11:15 (15 minutes)

Presenter: CRUZ, Steffen

Contribution ID: 16

Type: **not specified**

Neutron Activation Analysis via Nuclear Decay Kinetics using Gamma-Ray Spectroscopy at SFU

Friday, 17 February 2017 11:30 (15 minutes)

Presenter: DOMINGO, Thomas

Contribution ID: 17

Type: **not specified**

Dark Matter Searches at SNOLAB: looking for WIMPs, either heavy or light

Friday, 17 February 2017 19:00 (30 minutes)

Presenter: Dr GOREL, Pierre

Contribution ID: **18**

Type: **not specified**

Dark Matter Direct Detection with NEWS-G: Analysis and Results

Friday, 17 February 2017 19:30 (15 minutes)

Presenter: VAZQUEZ DE SOLA FERNANDEZ, Francisco

Contribution ID: 19

Type: **not specified**

Search for Dark Matter with leptonically-decaying Z Bosons and Missing Transverse Energy in the ATLAS Detector at the LHC

Friday, 17 February 2017 19:45 (15 minutes)

Presenter: ELLIOT, Alison

Contribution ID: 20

Type: **not specified**

A likelihood Ratio Algorithm to remove localized Alpha Particle Backgrounds in the DEAP-3600 Detector

Friday, 17 February 2017 20:00 (15 minutes)

Presenter: MIELNICHUK, Courtney

Contribution ID: 21

Type: **not specified**

Photo-Electron Pulse Finding and Pile-up Detection for the DEAP Experiment

Friday, 17 February 2017 20:15 (15 minutes)

Presenter: MCELROY, Thomas

Contribution ID: 22

Type: **not specified**

Barium-Ion Tagging for ^{136}Xe Double-Beta Decay Studies with nEXO

Friday, 17 February 2017 20:45 (30 minutes)

Presenter: Prof. BRUNNER, Thomas

Contribution ID: 23

Type: **not specified**

The 16N Source for the Calibration of the SNO+ Experiment

Friday, 17 February 2017 21:15 (15 minutes)

Presenter: HU, Jie

Contribution ID: 24

Type: **not specified**

Detection of Antineutrinos Using the SNO+ Detector

Friday, 17 February 2017 21:30 (15 minutes)

Presenter: MEKARSKI, Pawel

Contribution ID: 25

Type: **not specified**

Geochemical Measurement of the Half-Life of the Double- Beta Decay of ^{96}Zr

Friday, 17 February 2017 21:45 (15 minutes)

Presenter: MAYER, Adam J.

Contribution ID: 26

Type: **not specified**

Introduction to the Ultracold Neutron Facility at TRIUMF

Saturday, 18 February 2017 08:30 (30 minutes)

Presenter: Dr FRANKE, Beatrice

Contribution ID: 27

Type: **not specified**

EDM Monte Carlo Simulations for the UCN Experiment at TRIUMF

Saturday, 18 February 2017 09:00 (15 minutes)

Presenter: CHAHAL, Sanmeet

Contribution ID: 28

Type: **not specified**

Compensation of Magnetic Fields in the TRIUMF nEDM Experiment

Saturday, 18 February 2017 09:15 (15 minutes)

Presenter: AHMED, Shomi

Contribution ID: 29

Type: **not specified**

Observation of Atomic Transition in Antihydrogen

Saturday, 18 February 2017 09:30 (15 minutes)

Presenter: EVANS, Andrew

Contribution ID: 30

Type: **not specified**

Identification of the 2+ms mixed-symmetry State in ^{52}Ti using Alpha Transfer Reaction

Saturday, 18 February 2017 09:45 (15 minutes)

Presenter: Dr ALI, Fuad A.

Contribution ID: 31

Type: **not specified**

Connecting Nuclear Astrophysics to Cosmological Structure Formation

Saturday, 18 February 2017 10:15 (30 minutes)

Presenter: Dr CÔTÉ, Benoit

Contribution ID: 32

Type: **not specified**

The $^{22}\text{Ne}(p,\gamma)^{23}\text{Na}$ Reaction and the Origin of ^{23}Na

Saturday, 18 February 2017 10:45 (15 minutes)

Presenter: Dr LENNARZ, Annika

Contribution ID: 33

Type: **not specified**

Experimental Results of β -delayed Neutron Branching Ratios for heavy Species

Saturday, 18 February 2017 11:00 (15 minutes)

Presenter: Dr CABALLERO-FOLCH, Roger

Contribution ID: 34

Type: **not specified**

A Study on Low Spin States in ^{154}Gd using (p, p') Reaction

Saturday, 18 February 2017 11:15 (15 minutes)

Presenter: BIDAMAN, Harris

Contribution ID: 35

Type: **not specified**

Investigation of excited 0+ States populated via the Er-162 two-Neutron Transfer Reaction

Saturday, 18 February 2017 11:30 (15 minutes)

Presenter: BURBADGE, Christina

Contribution ID: 36

Type: **not specified**

The Nuclear Delta Force and The Two-Particle-Rotor Model

Saturday, 18 February 2017 11:45 (15 minutes)

Presenter: VERMA, Anish

Contribution ID: 37

Type: **not specified**

Exploring the Higgs Boson with ATLAS Data

Saturday, 18 February 2017 19:00 (30 minutes)

Presenter: Dr GILLBERG, Dag

Contribution ID: **38**

Type: **not specified**

Quartic Gauge Boson Coupling Results from the LHC

Saturday, 18 February 2017 19:30 (15 minutes)

Presenter: Dr ANELLI, Christopher

Contribution ID: 39

Type: **not specified**

Measurement of Z Bosons produced in association with Jets via Vector Boson Fusion at 13 TeV with the ATLAS Detector

Saturday, 18 February 2017 19:45 (15 minutes)

Presenter: WEBER, Stephen

Contribution ID: 40

Type: **not specified**

Hunting for “Bumps” in the Dilepton Invariant Mass Spectrum using BUMPHUNTER at the ATLAS Detector

Saturday, 18 February 2017 20:00 (15 minutes)

Presenter: KHODA, Elham E.

Contribution ID: 41

Type: **not specified**

The Hunt for the Z' Boson in ATLAS: a Statistical Perspective

Saturday, 18 February 2017 20:15 (15 minutes)

Presenter: DREYER, Etienne

Contribution ID: 42

Type: **not specified**

Spectrometer and Detector Simulations for the MOLLER Experiment

Saturday, 18 February 2017 20:45 (15 minutes)

Presenter: RAHMAN, Sakib

Contribution ID: 43

Type: **not specified**

Electron Detection for the Jefferson Lab Hall A Compton Polarimeter

Saturday, 18 February 2017 21:00 (15 minutes)

Presenter: SPIES, Ryan

Contribution ID: 44

Type: **not specified**

Analysis of the $\eta(548) \rightarrow \pi^+ \pi^- \pi^0$ and $\eta'(958) \rightarrow \pi^+ \pi^- \eta$ Channels using a 8-9 GeV tagged Photon Beam for the GlueX Experiment

Saturday, 18 February 2017 21:15 (15 minutes)

Presenter: BEATTIE, Tegan

Contribution ID: 45

Type: **not specified**

Preliminary Survey of the Photoproduction of π^+ + π^- + 4γ Final State in GlueX Experiment

Saturday, 18 February 2017 21:30 (15 minutes)

Presenter: FODA, Ahmed M.

Contribution ID: 46

Type: **not specified**

Spin Polarizability of a Proton via Measurement of Nuclear Structure Observable with Polarized Target and Polarized Beam at MAMI

Saturday, 18 February 2017 21:45 (15 minutes)

Presenter: PAUDYAL, Dilli R.

Contribution ID: 47

Type: **not specified**

Detailed Spectroscopy of ^{132}Sn with GRIFFIN

Sunday, 19 February 2017 08:30 (15 minutes)

Presenter: Dr WHITMORE, Kenneth

Contribution ID: 48

Type: **not specified**

Angular Correlation Measurements With GRIFFIN

Sunday, 19 February 2017 08:45 (15 minutes)

Presenter: MACLEAN, Andrew D.

Contribution ID: 49

Type: **not specified**

Progress towards measuring Parity Non Conservation in Francium

Sunday, 19 February 2017 09:00 (15 minutes)

Presenter: Dr KALITA, Mukut R.

Contribution ID: 50

Type: **not specified**

A Silicon Tracker for ISAC-II and the Future ARIEL Facility

Sunday, 19 February 2017 09:15 (15 minutes)

Presenter: Dr MUECHER, Dennis

Contribution ID: 51

Type: **not specified**

Ground State Spin of ^{101}Sn and the Role of the Tensor Force in exotic Nuclei

Sunday, 19 February 2017 09:30 (15 minutes)

Presenter: PARK, Joochun

Contribution ID: 52

Type: **not specified**

Coulomb Artifacts and Bottomonium Hyperfine Splitting in Lattice NRQCD

Sunday, 19 February 2017 09:45 (15 minutes)

Presenter: RAYYAN, Ahmed

Contribution ID: 53

Type: **not specified**

Reaction Spectroscopy unveils new Features of Rare Isotopes

Sunday, 19 February 2017 10:30 (30 minutes)

Presenter: Prof. KANUNGO, Rituparna

Contribution ID: 54

Type: **not specified**

A new Determination of V_{us}

Sunday, 19 February 2017 11:00 (15 minutes)

Presenter: Prof. MALTMAN, Kim

Contribution ID: 55

Type: **not specified**

Closing remarks

Sunday, 19 February 2017 11:30 (15 minutes)

Presenter: Prof. LEFEBVRE, Michel (University of Victoria)