

## **Session Program**

**6-11 Jun 2021**



**Canadian Association  
of Physicists**

**Association canadienne  
des physiciens et physiciennes**

## **2021 CAP Virtual Congress / Congrès virtuel de l'ACP 2021**

### ***W-POS-J #80-107 Poster session (PPD) / Session d'affiches (PPD)***

Underline Conference System

## Tuesday 8 June

13:45

### W-POS-J #80-107 Poster session (PPD) / Session d'affiches (PPD)

Session | Location: Underline Conference System | Convener: Marie-Cécile Piro

13:45-13:47

**(U\*) POS-J80 -- Automated Feature Detection and Camera R&D for Photogrammetry in Super-K and Future Water Cherenkov Neutrino Detectors**

**Speaker**

Michael Sekatchev

13:47-13:49

**(G\*) POS-J81 -- Study of External Crosstalk in Light-only Liquid Xenon (LoLX) experiment**

**Speaker**

Mayur Patel

13:49-13:51

**POS-J82 -- Constraining ultralight dark photons with galactic center gas clouds**

**Speaker**

Amit Bhoonah

13:51-13:53

**(G\*) POS-J83 -- Exploring dark matter detection using Solar capture and the Non-Relativistic Effective Operator formalism.**

**Speaker**

Neal Avis Kozar

13:53-13:55

**(G\*) POS-J84 -- The effect of single Coulomb scattering on Cherenkov emission**

**Speaker**

Dmytro Minchenko

13:55-13:57

**(G\*) POS-J85 -- SNO+ U-238 External Background Measurements using Radon Assay Technique**

**Speaker**

Mr Syed M Adil Hussain

13:57-13:59

**(U\*) POS-J86 -- K40 Backgrounds in the SNO+ Neutrino Detector**

**Speaker**

Parmesh Ravi

13:59-14:01

**(G\*) POS-J87 -- Magnetic monopole production in heavy-ion ultraperipheral collisions at the LHC**

**Speaker**

Wen Yi Song

14:01-14:03

**(G\*) POS-J88 -- Searching for charged Higgs bosons in W+photon final state****Speaker**

Zhelun Li

14:03-14:05

**(U\*) POS-J89 -- Modelling bubble nucleation efficiency in superheated liquid argon****Speaker**

Freyja Wang

14:05-14:07

**(G\*) POS-J90 -- Analysis and identification of alpha events for NEWS-G****Speaker**

Jean-Marie Coquillat

14:07-14:09

**POS-J91 -- Crosstalk and fiducial volume study with the ACHINOS sensor for the NEWS-G experiment****Speaker**

George Savvidis

14:09-14:11

**(G\*) POS-J92 -- Analyzing the behavior of a Candidate SiPM and Signal Amplifier for MATHUSLA****Speaker**

Lucas Perna

14:11-14:13

**(G\*) POS-J93 -- Validating misalignment measurements between particle detectors for the ATLAS New Small Wheels****Speaker**

Lia Frances Formenti

14:13-14:15

**(G\*) POS-J94 -- Study of Wyy tri-boson production in proton-proton collisions with the ATLAS detector****Speaker**

Auriane Canesse

14:15-14:17

**WITHDRAWN: POS-J95**

14:17-14:19

**(G\*) POS-J96 -- Drift Time and Charge Trapping in P-Type Point-Contact HPGe Detectors****Speaker**

Tianai Ye

14:19-14:21

**(G\*) POS-J97 -- Optical reflectors in an ARICH detector for a hadron production experiment****Speaker**

Mr Bruno Ferrazzi

14:21-14:23

**(G\*) POS-J98 -- A search for neutrino absorption with  $^{40}\text{Ar}$  using the DEAP-3600 detector****Speaker**

Emma Ellingwood

14:23-14:25

**WITHDRAWN : POS-J99**

14:25-14:27

**POS-J100 -- Multi-Interacting Massive Particles in DEAP-3600****Speaker**

Michela Lai

14:27-14:29

**POS-J101 -- Constraining contributions from  $\text{Kr-85}$  in DEAP-3600****Speaker**

Sean Daugherty

14:29-14:31

**WITHDRAWN : POS-J102**

14:31-14:33

**(G\*) POS-J103 -- Search for Dark Matter Produced in Association with a Dark Sector Higgs Boson in Proton-Proton Collisions with the ATLAS Detector****Speaker**

Danika MacDonell

14:33-14:35

**(G\*) POS-J104 -- Low Background Neutron Counters for HALO-1KT****Speaker**

Esther Weima

14:35-14:37

**POS-J105 -- Dark matter, axion quark nugget, and mysterious bursts observed by telescope array****Speaker**

Xunyu Liang

14:37-14:39

**(G\*) POS-J106 -- Search for New Physics Inside Boosted Jets at the ATLAS Detector Using Anomaly Detection****Speaker**

Mrs Jacinthe Pilette

14:39-14:41

**(U\*) POS-J107 - Radioactive Background Characterization of the Cryogenic Underground TEST Facility (CUTE)****Speaker**

Melissa Baiocchi

14:45

17:30

18:30

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