

Session Program

5-11 Jun 2022



**Canadian Association
of Physicists**

**Association canadienne
des physiciens et physiciennes**

2022 CAP Congress / Congrès de l'ACP 2022

***M2-1 Exploring the Energy and Precision
Frontier II (PPD) | Exploration de la frontière
d'énergie et de précision II (PPD)***

McMaster University

Monday 6 June

13:15

M2-1 Exploring the Energy and Precision Frontier II (PPD) | Exploration de la frontière d'énergie et de précision II (PPD)

Session | **Location:** McMaster University, MDCL 1105 | **Convener:** Dominique Anderson Trischuk

13:15-13:45 (I) ATLAS Highlights

Speaker

Ellis Kay

13:45-14:00

(G*) Relative luminosity measurement and long-term stability studies with ATLAS-TPX network during LHC Run-2.

Speaker

Muhammad Usman

14:00-14:15

(G*) Most precise measurement of the top-quark pair production cross-section in the single-lepton channel

Speaker

Sahibjeet Singh

14:15-14:30

Search for single production of a vector-like T quark decaying into a Higgs boson and top quark with fully hadronic final states using the ATLAS detector

Speaker

Joel Hengwei Foo

14:30-14:45

(G*) Measurements of the production cross section for the collinear emission of a Z boson from a jet in pp collisions at 13 TeV with the ATLAS detector

Speaker

Alexandre Laurier

14:45