

**Session Program**

**9-21 Apr 2022**

**APS April 2022**

***BSM I***

US

## Saturday 9 April

11:00

### BSM I

Session | Location: US,

11:00-11:20

#### Search for Dark Matter Produced in Association with a Dark Higgs Boson Decaying to two b-quarks Using full Run-2 data set from the ATLAS detector

**Speaker**

Qibin Liu

11:20-11:40

#### Search for Dark Matter produced in association with a Higgs boson decaying to a pair of b quarks and combination of Dark Matter search with 2HDM+\$a\$ with the ATLAS detector

**Speaker**

Jay Chan

11:40-12:00

#### Search for Heavy (pseudo)Higgs boson A/H produced in association with a top-antitop quark pair leading to the final state with four top quarks in \$pp\$ collisions at \$\sqrt{s}=13\$ TeV with the ATLAS detector

**Speaker**

Meng-Ju Tsai

11:40-12:00

#### Search for the pair production of vector-like quarks in the Wq+X final state with the full Run 2 ATLAS dataset

**Speaker**

Evan Richard Van De Wall

11:40-12:00

#### Search for neutral long-lived particles decaying into displaced jets in the ATLAS calorimeter

**Speaker**

Mason Proffitt

11:40-12:00

#### Search for dark mesons decaying to top and bottom quarks in 139 fb-1 of proton-proton collision data at \$\sqrt{s} = 13\$ TeV with the ATLAS detector at the LHC.

**Speaker**

Galen Gledhill

12:00