

**Session Program**

**17-30 Mar 2022**

**Rehearsal talks for the 2022 APS April  
Meeting**

***BSM I***

US

# Thursday 17 March

11:00

## BSM I

**Session** | **Location:** US, | **Conveners:** Joseph Ira Kroll, Shih-Chieh Hsu

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+ $\mathcal{A}$  with the ATLAS detector**

**Speaker**

Jay Chan

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 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  $\sqrt{s}$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

**Speaker**

Meng-Ju Tsai

11:40–12:00

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

**Speaker**

Galen Gledhill

12:00