



APC Colloquium  
**Wednesday, January 21 at 11am**  
Room Luc Valentin, 454A

**Jamie Boyd**  
**CERN**

## **FASER: Looking Forward to New Physics at the LHC**

FASER is a small experiment that was installed into the Large Hadron Collider (LHC) complex at CERN in 2021. The experiment has been taking proton collision data during LHC Run 3 (2022-to-date) with the aim to search for light new particles and to study, for the first time, neutrinos produced at a particle collider. In this colloquium I will describe the physics motivation, the experiment design and the physics results released by FASER over the last years, as well as touching on the future with possible detector upgrades.