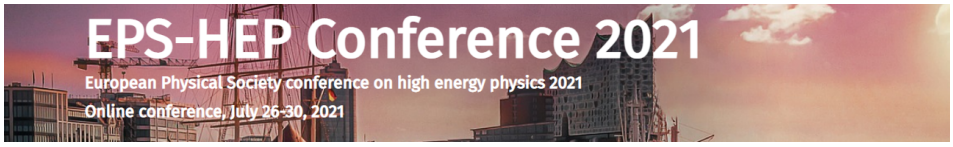

Contribution ID: **228** Type: **Parallel session talk**

Searches for strong production of supersymmetric particles with the ATLAS detector

Monday, 26 July 2021 10:00 (15 minutes)

Supersymmetry (SUSY) provides elegant solutions to several problems in the Standard Model, and searches for SUSY particles are an important component of the LHC physics program. Naturalness arguments for weak-scale supersymmetry favour supersymmetric partners of the gluons and third generation quarks with masses light enough to be produced at the LHC. This talk will present the latest results of searches conducted by the ATLAS experiment which target gluino and squark production, including stop and sbottom, in a variety of decay modes, focusing on decay modes in which R-parity is conserved and therefore the lightest SUSY particle is a stable dark matter candidate.

Collaboration / Activity

ATLAS

First author

Email

Primary authors: COLLABORATION, ATLAS; LONG, Jonathan (Urbana UI)

Presenter: LONG, Jonathan (Urbana UI)

Session Classification: T10: Searches for New Physics

Track Classification: Searches for New Physics