Contribution ID: 481

Type: Parallel talk

Recent searches for new phenomena with the ATLAS detector

Wednesday 4 May 2022 18:30 (20 minutes)

Many theories beyond the Standard Model (BSM) have been proposed to address several of the Standard Model shortcomings, such as the origin of dark matter and neutrino masses, the fine-tuning of the Higgs Boson mass, or the observed pattern of masses and mixing angles in the quark and lepton sectors. Many of these BSM extensions predict new particles or interactions directly accessible at the LHC. This talk will summarize the results of recent searches based on the the full Run 2 data collected by the ATLAS detector at the LHC with a centre-of-mass energy of 13 TeV. These include searches for strong and electroweak production of supersymmetric particles, vector-like fermions, as well as leptoquarks.

Submitted on behalf of a Collaboration?

Yes

Author: ATLAS COLLABORATION

Co-author: RIU, Imma (IFAE Barcelona (ES))

Presenters: ATLAS COLLABORATION; FAWCETT, William James (University of Cambridge (GB))

Session Classification: WG3: Electroweak Physics and Beyond the Standard Model

Track Classification: WG3: Electroweak Physics and Beyond the Standard Model