



Contribution ID: 104

Type: Poster

Beyond-Standard-Model Physics at the High-Luminosity LHC with the CMS detector

Monday, 15 July 2019 18:30 (1h 30m)

The High-Luminosity Large Hadron Collider (HL-LHC) is expected to deliver an integrated luminosity of up to 3000 fb⁻¹. The very high instantaneous luminosity will lead to about 200 proton-proton collisions per bunch crossing (“pileup”) superimposed to each event of interest, therefore providing extremely challenging experimental conditions. The sensitivity to find new physics Beyond the Standard Model (BSM) physics is significantly improved and will allow extending the reach for heavy vector bosons, for BSM Higgs, SUSY, dark matter and exotic long-lived signatures, to name a few.

Primary author: MEYER, Arnd (Rheinisch Westfaelische Tech. Hoch. (DE))

Presenter: CAILLOL, Cecile Sarah (University of Wisconsin Madison (US))

Session Classification: Wine & Cheese Poster Session

Track Classification: Searches for New Physics