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10 Years on - The Higgs Boson at the LHC

Monday 21 February 2022 08:30 (1 hour)

Recent results on Higgs boson physics by the CMS collaboration will be presented. Emphasis will be put on measurements and searches exploiting the full statistical power of the dataset, heavily using machine learning techniques, collected during run2 of the LHC. The 138 fb^{-1} of integrated luminosity gathered provide access to previously unreachable levels of precision, both in the measurement of the physical properties of the Higgs boson as well as in the ability to use the Higgs boson as a portal to search for physics beyond the Standard Model of particle physics. I will discuss prospects for further improvements in the measurements in the forthcoming run of the LHC and how the upgrades to the detector for the HL-LHC will advance these measurements and searches

Summary

Presenter: RUSACK, Roger (University of Minnesota (US))

Session Classification: Monday