Joint annual meeting of Swiss and Austrian Physical Societies 2017



Contribution ID: 129 Type: Talk

【314】Combination of Higgs differential observables and limits on Higgs couplings at CMS

Wednesday 23 August 2017 17:45 (15 minutes)

The spectrum of differential observables related to Higgs boson production is a sensitive probe to new physics. At the LHC, Higgs production is dominated by gluon fusion, for which loop contributions from new physics may manifest in the shape of differential observables. With the millions of produced Higgs bosons at the High Luminosity LHC, limits on Higgs couplings from differential observables are expected to be competitive with direct probes. Limits on Higgs couplings are set using recent data obtained with the CMS detector from multiple decay channels.

Author: KLIJNSMA, Thomas (Eidgenoessische Technische Hochschule Zuerich (CH))

Presenter: KLIJNSMA, Thomas (Eidgenoessische Technische Hochschule Zuerich (CH))

Session Classification: Nuclear, Particle-and Astrophysics (TASK-FAKT)

Track Classification: Nuclear, Particle- and Astrophysics (TASK - FAKT)