

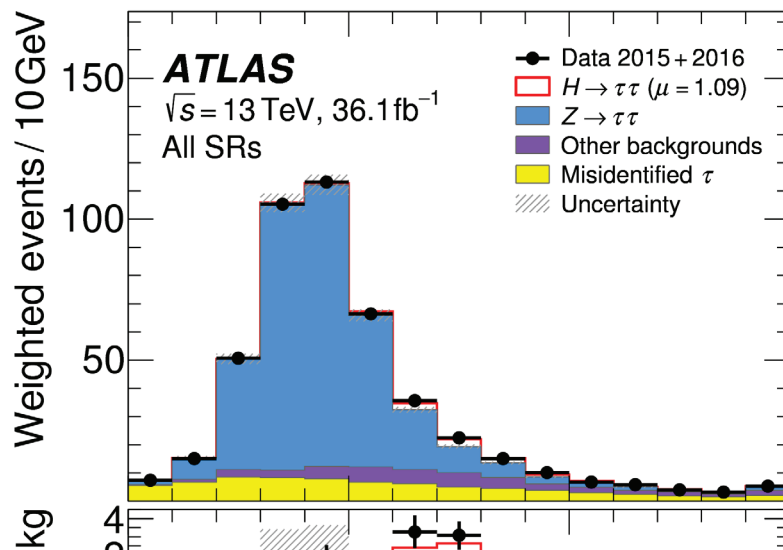


Quentin Buat

CERN/Simon Fraser University

April 16, 2019 at 12:00 p.m. in WLC-245

Dissecting the Higgs boson with ATLAS and leptons



Using data taken during the first years of the LHC Run2, ATLAS has firmly established the coupling of the Higgs boson to the tau lepton, thus directly confirming the existence of leptonic Yukawa interactions. In this talk, I will present the cross-section measurements performed by ATLAS in the di-tau final state with a partial Run2 dataset and discuss the prospects of the analysis with the full Run2 dataset and beyond. I will also discuss the status of the search for the muonic Yukawa interaction

Lunch will be served beginning at 11:45 a.m. RSVP required.

Sponsored by the Flint Fund, Yale Wright Laboratory, Yale University, and the Yale Physics Department.