



LHC Seminar

SPEAKER: Giacinto Piacquadio
TITLE: **Evidence for the H to bb decay in VH production with the ATLAS detector**
DATE: 25 Jul 2017, 11:00
PLACE: 503-1-001 - Council Chamber

ABSTRACT

Most Higgs bosons are expected to decay to a pair of b-quarks, with the Standard Model predicting a branching fraction of about 58%. Probing this decay is important to furthering our understanding of the Higgs sector, but its observation at hadron colliders is complicated by overwhelming Standard Model backgrounds. In this seminar, a search for the Higgs to bb decay, looking at the associated production of the Higgs boson with a W or Z boson, is presented using 36 fb⁻¹ of 13 TeV LHC Run 2 data.