

Abstract

The search of the Standard Model Higgs boson is one of the important goals of the Large Hadron Collider physics program. The poster summarizes the results of the ATLAS detector search for the Higgs boson, in the mass range $110 < m_H < 130$ GeV, when produced in association with a W or Z boson and decaying to a pair of bottom quarks.

No evidence for the Higgs boson production is observed in a dataset of 7 TeV proton-proton collisions, corresponding to 1.04 fb⁻¹ of integrated luminosity, recorded by the ATLAS experiment in 2011.