IOP Institute of Physics 2013 High Energy and Astro Particle Physics

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Higgs to bbar at ATLAS, and the estimation of theoretical systematic uncertianties

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A new boson has been observed decaying to two photons and to four leptons. In order to determine whether this new particle is the long sought-after Higgs boson, it should be determined whether it also decays into b quark pairs. An overview of the search with the ATLAS Detector for a Higgs boson decaying into two b quarks, produced in association with a vector boson, will be presented. A look at the latest efforts to estimate theoretical systematic uncertainties for this search will also be presented.

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