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Search for a Standard Model Higgs in the mass range 200-600 GeV in the channel H–>ZZ–>llqq with the ATLAS detector

Wednesday, 11 April 2012 19:00 (20 minutes)

This talk describes the search for the Standard Model Higgs boson decaying via the channel H ⟶ ZZ ⟶ l+l-qq, where l = e or mu.
The analysis was developed considering separately two Higgs boson mass ranges: High Mass (200-600GeV) and, for the first time, the Low Mass range (120-200GeV)
using 4.7 fb-1 of pp collision data recorded by the ATLAS experiment at the LHC.
Events with two b-tagged jets, which have a better signal-to-background ratio, are treated as a separate channel to improve the sensitivity of the search.

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