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Search for the standard model Higgs boson in the Zgamma decay mode with ATLAS

Friday, 16 August 2013 11:00 (25 minutes)

The H->Zgamma decay mode is a key to understanding any deviation in signal strength from Standard Model expectation in the H->diphoton decay mode. I summarize the selection, background estimation, statistical treatment and results of search for Standard Model Higgs boson in the channel H->Zgamma, Z->l+l-, where l = e or mu, using the 4.6 fb-1 of proton-proton collisions at sqrt(s)=7TeV and 20.7 fb-1 of proton-proton collisions at sqrt(s)=8TeV recorded by the ATLAS experiment at the LHC. I also describe the recent improvements since the preliminary results presented at the winter 2013 conferences.

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