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## The Higgs 'Golden Channel' at 7 TeV

*Monday, 29 August 2011 15:50 (20 minutes)*

We perform a study of the expected significance of a Standard Model Higgs Boson signal at a 7 TeV LHC. Specifically we examine the  $H \rightarrow ZZ \rightarrow l+l+l+l$  "Golden Channel" for a Higgs mass range of 175-350 GeV at various luminosities. We also examine exclusion limits should a signal not be seen.

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**Session Classification:** Parallel Session 4