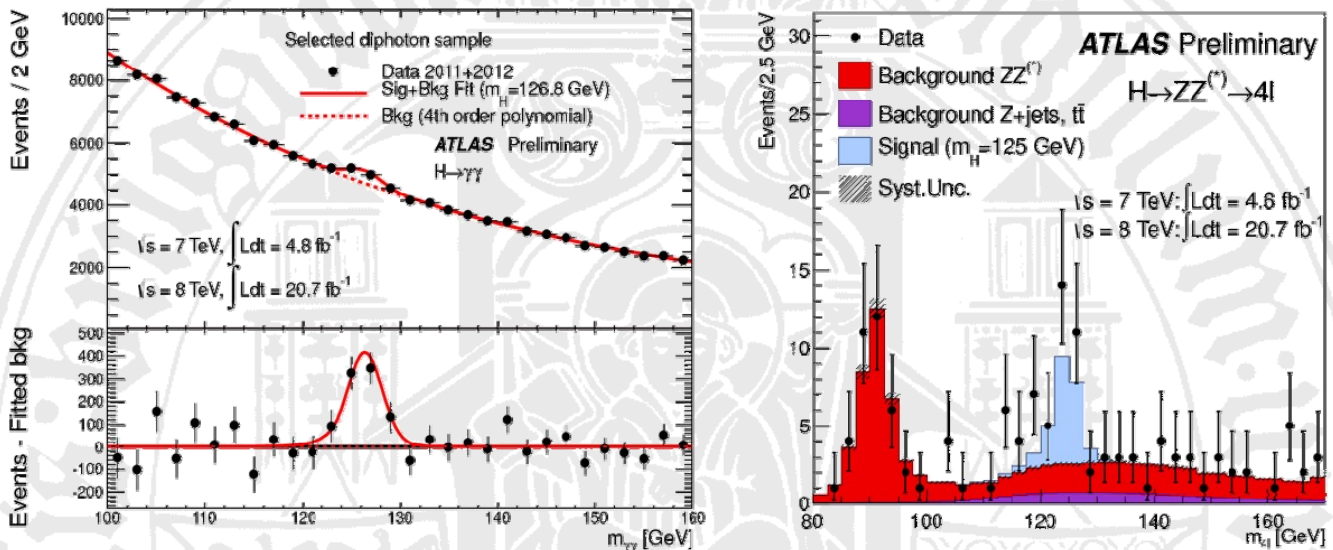




# PHYSIKALISCHES KOLLOQUIUM

AM 29. APRIL 2013 UM 17 UHR C.T.

IM GROßEN HÖRSAAL



## THE LONG JOURNEY TO THE HIGGS BOSON AND BEYOND AT THE LHC

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Since three years the experiments at the Large Hadron Collider (LHC), in particular ATLAS, investigate particle physics at the highest collision energies ever achieved in a laboratory. Following a rich harvest of results for Standard Model (SM) Physics came in 2012 the first spectacular discovery of a new, heavy particle, most likely the long-awaited Higgs boson. However, with this discovery the exciting journey into new physics, also beyond the SM, has only just begun at the LHC. Besides first results the talk will also cover briefly the history and the challenges of the whole LHC project.