

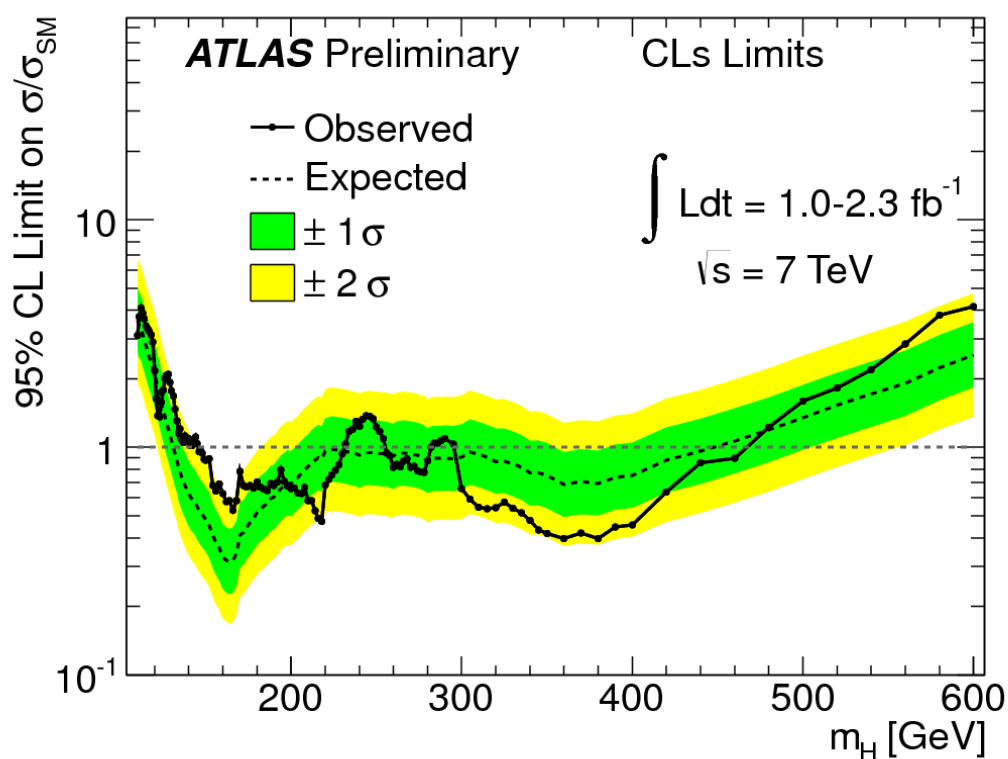
New Higgs Combos from ATLAS and CMS

Philip E. Gibbs*

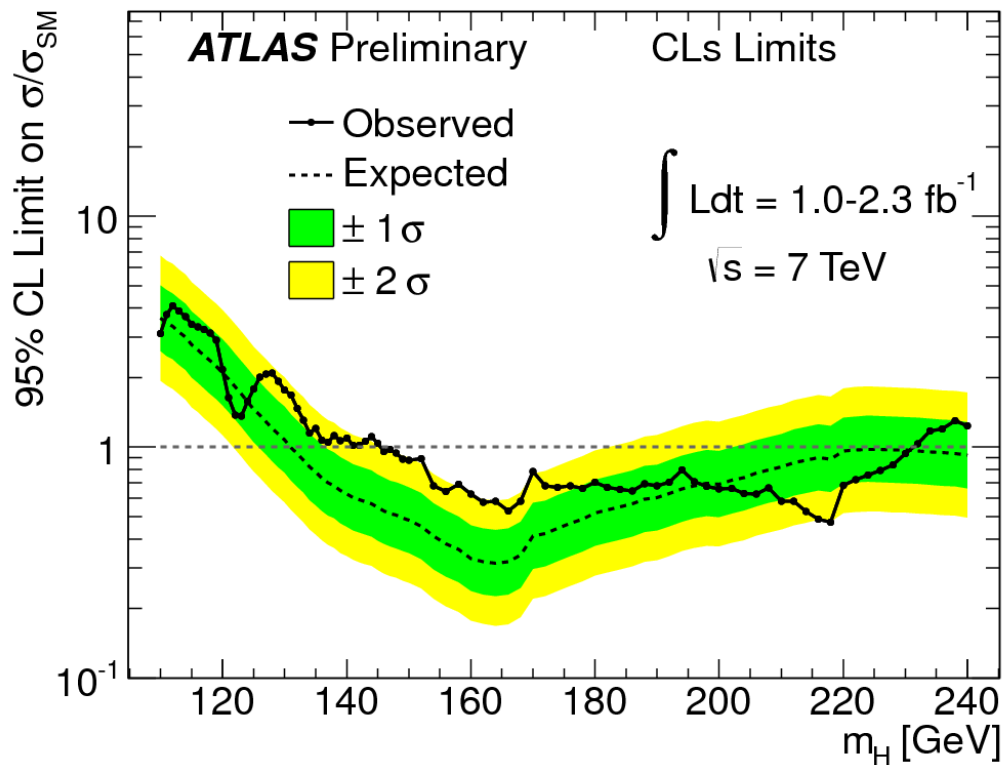
Abstract

As we wait for the Lepton-Photon conference to begin, ATLAS have released some new Higgs combination plots in a [conference note](#). These have added 2.3/fb in the $H \rightarrow ZZ \rightarrow 4l$ channel and 1.7/fb in the $H \rightarrow WW \rightarrow ll\nu\nu$ channels.

Key Words: LHC, ATLAS, CMS, Higgs, Lepton-Photon 2011.



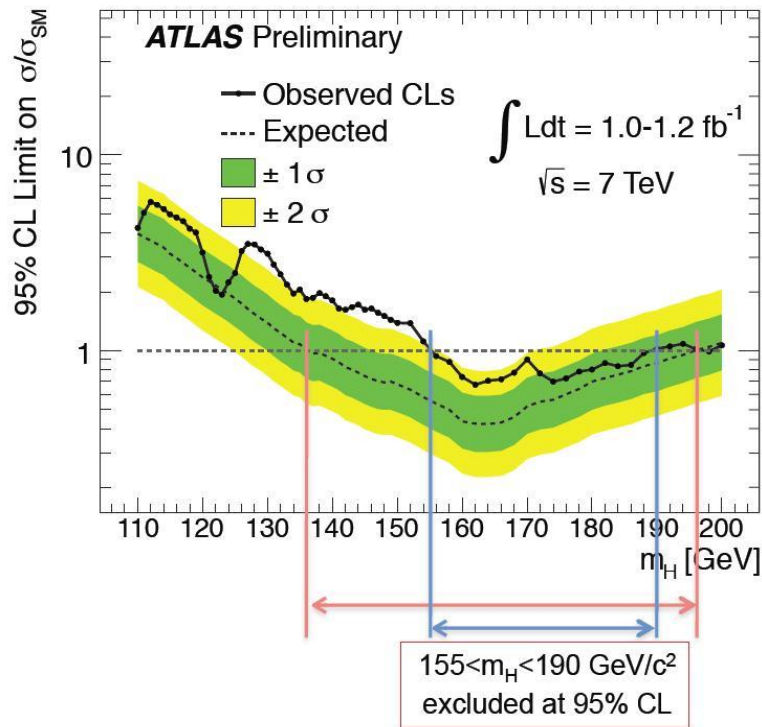
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CMS is also showing plots with 1.7/fb at LP11 now. Things are not going as predicted. Instead of showing a combination of the ATLAS and CMS data from EPS they are showing individual plots with more data. Great news!

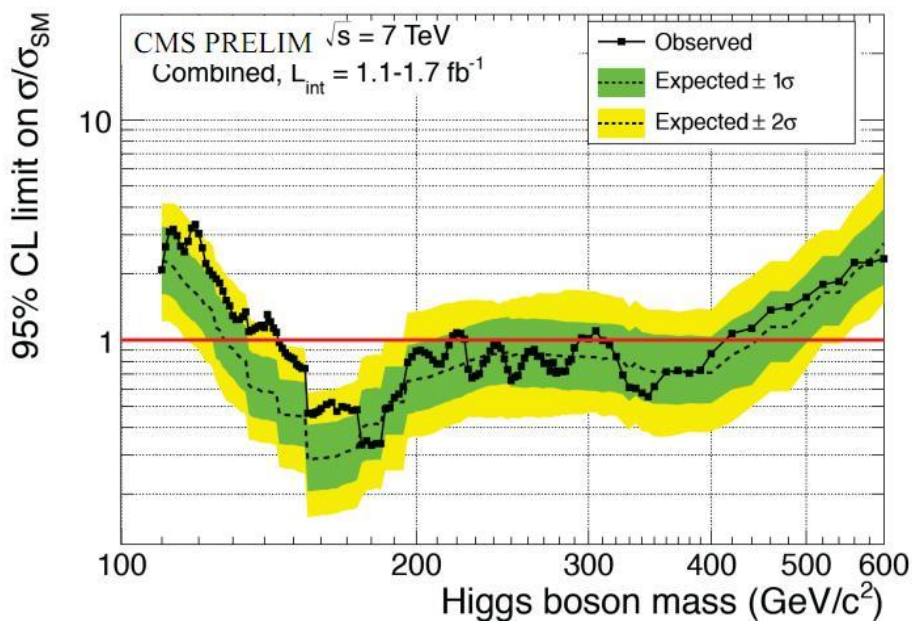
There is a [press release](#) from CERN that plays down the excesses seen at EPS pointing to the fact that they have diminished with the new data. One reason why they probably do not want to show the combined plot from EPS is that it strengthens the excess and this could lead to premature conclusions.

Compare the ATLAS plot above with the EPS result below to see how the excess has dropped



You have to remember that these excesses are still based on a very small number of events so there are going to be fluctuations like this until more data has been gathered.

Here is the CMS plot shown at LP11 today with a similar story



References

1. <http://blog.vixra.org/2011/08/22/new-higgs-combos-from-atlas/>