



### MPI Higgs - Introduction

1

MPI HIGGS

July 12, 2011

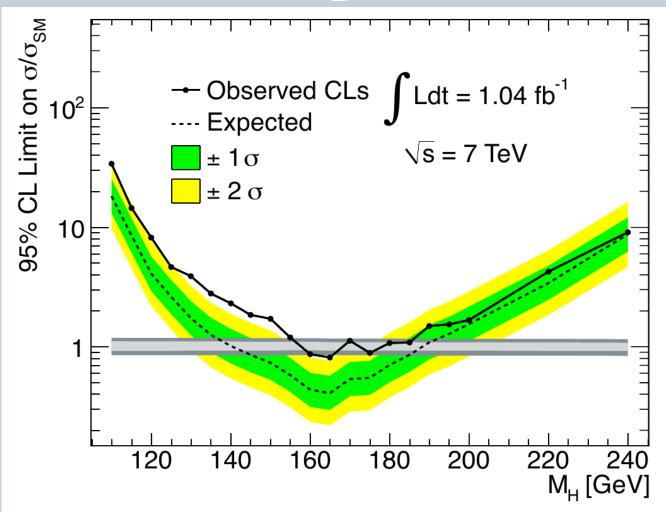
**Rikard Sandström** 

### Introduction

- H  $\rightarrow$  WW  $\rightarrow$  *lvlv* showed an excess of events in previous iterations.
  - After very hard work from many people this excess is less significant.
  - Passed initial approval, and will be circulated to ATLAS (today?)
- Other Higgs channels do not observe an excess.
- Johanna and I will finally get our hands free to study high mass Higgs after approval for EPS!

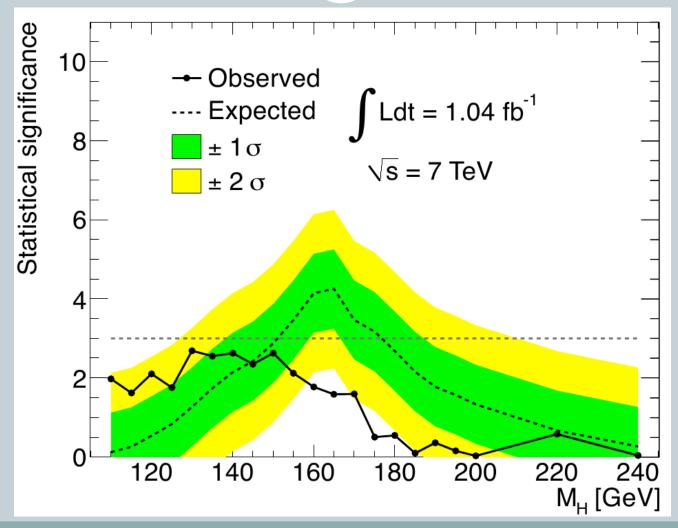
### $H \rightarrow WW \rightarrow lvlv$ exclusion





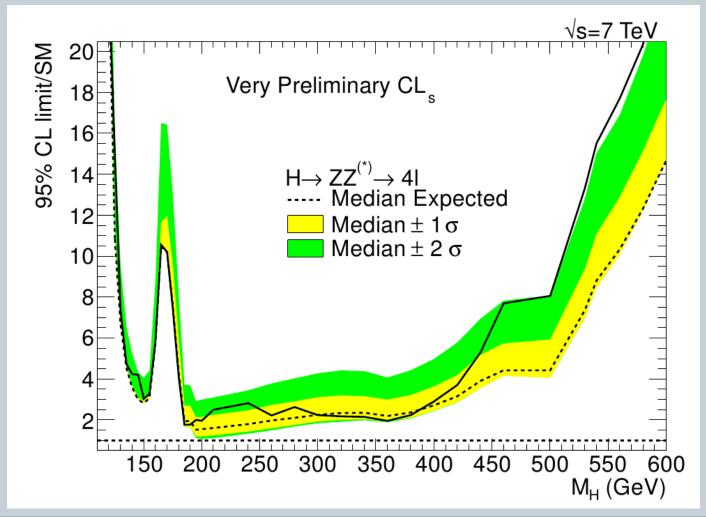
# $H \rightarrow WW \rightarrow lvlv$ discovery





## $H \rightarrow ZZ \rightarrow 4l$ exclusion





## $H \rightarrow ZZ \rightarrow llvv$ exclusion



