

RECENT AND FUTURE ACTIVITIES IN ATLAS

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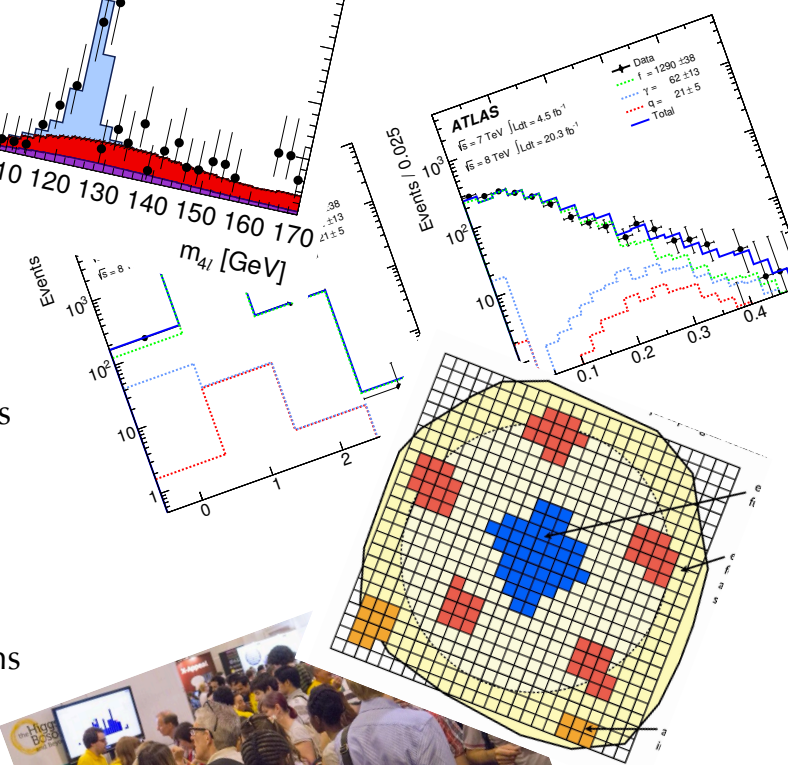
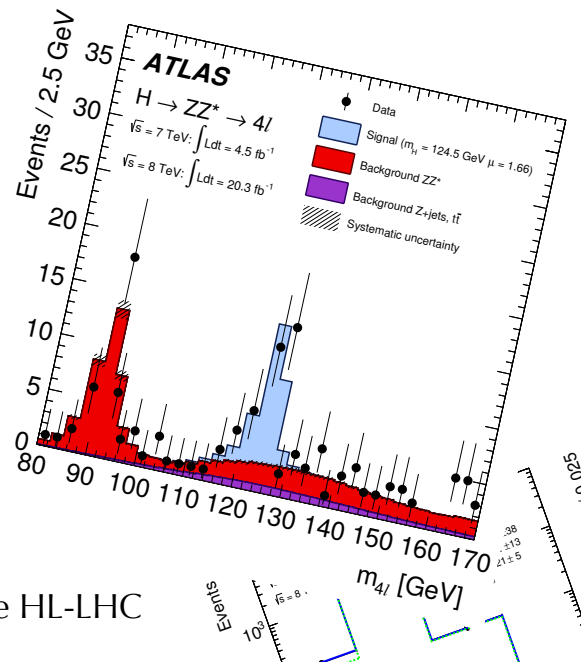
In the Recent PAST :

- H4I group
 - Editor of the event selection Supporting note
 - Developing a bkg method in the $ll+ee$ channel

Now:

- Higgs gamma 8TeV data analysis
 - MVA x-check
 - Systematic uncertainty
 - Prospect studies for our sensitivity projections for the HL-LHC
- Egamma liaison between Higgs groups.
 - The good communication between the CP group and the physics group is a very important topic essential for the Run2 startup.
- Electron Reconstruction
 - Start looking at the electron reconstruction and the migration to the new xAOD framework .
 - Common calo Isolation framework between electrons and muons
 - Super-cluster algorithm setup in release 17.2 need to migrate in rel 19.X

I enjoy helping to organize visits to CERN when student groups come over



Future plans

I'll come to Birmingham for ~ 5 weeks this November to teach a few hours worth of labs courses

- **Operation**

- With the startup I'll contribute to data taking shifts

- **Performance**

- **egamma side:**

- Early data Run2
 - Reconstruction level
 - The communication between the H group and the CP group will be essential towards publication with the first 2fb-1 @13TeV

- **Physics analysis :**

- After 1 year @ 13 TeV
 - Pursuing H searches in quarkonia-gamma final state
 - H4l analysis
 - Looking at some more challenging channels like ttH,