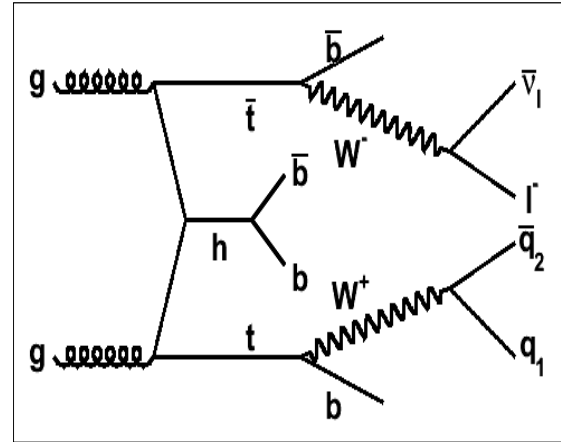
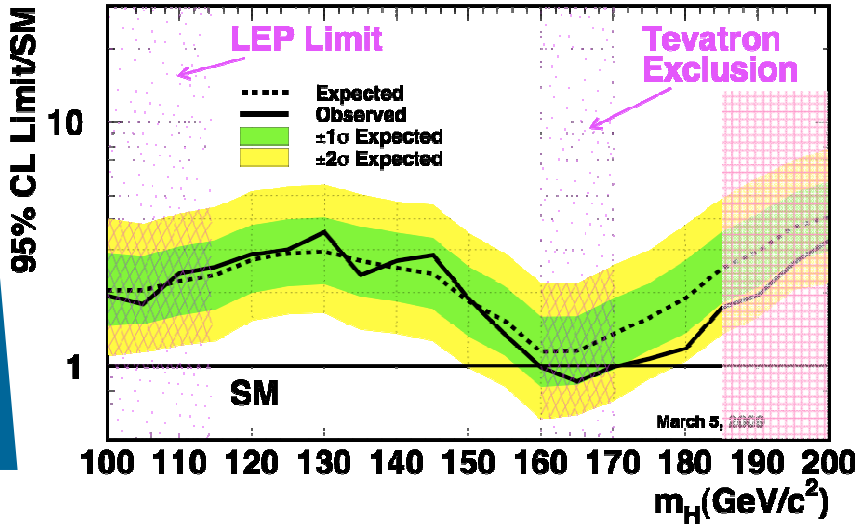
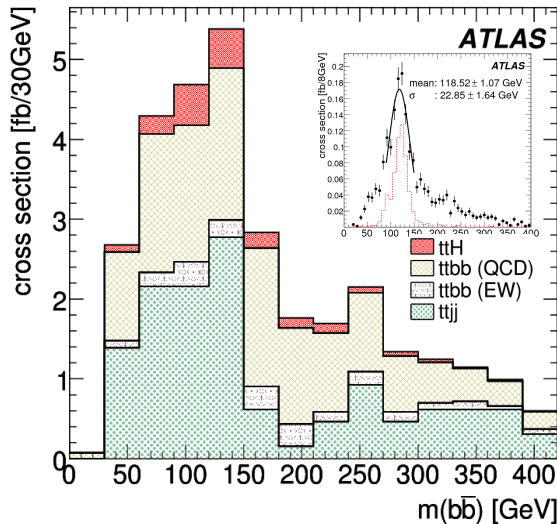


Higgs boson search using $t\bar{t}H$ ($H \rightarrow b\bar{b}$)

Tevatron Run II Preliminary, $L=0.9-4.2 \text{ fb}^{-1}$



From Hardware to Physics

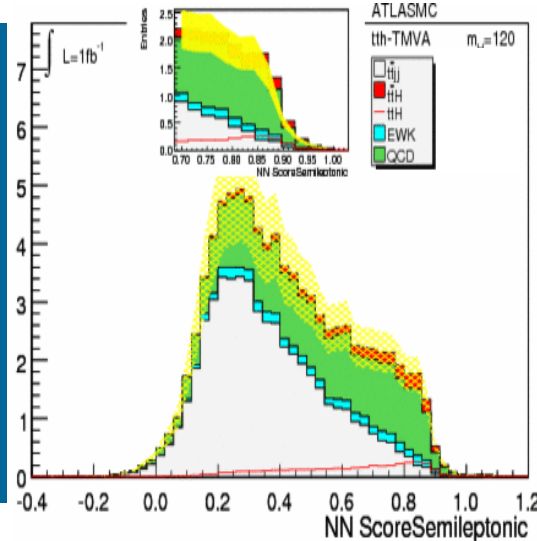


ATLAS analysis $t\bar{t}H$ ($H \rightarrow b\bar{b}$)
Critical issues:

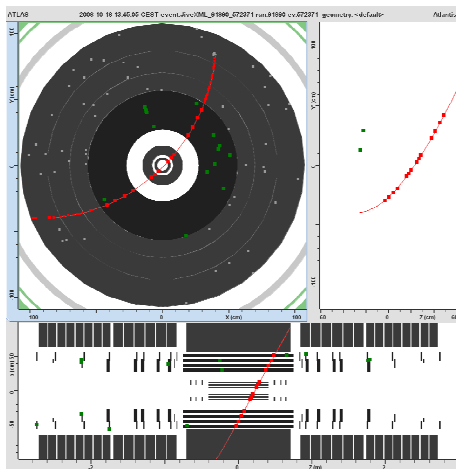
- b -tagging eff.
- bkgd. estimation
- b -jet resolution

New methods

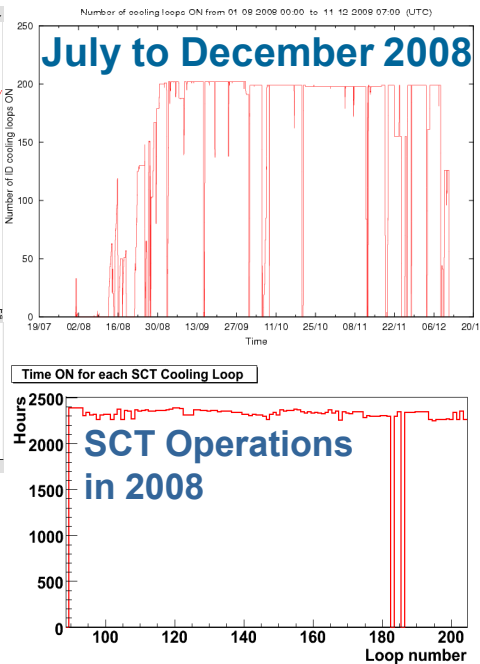
- Neural Network
- Optimised statistical tests



Inner Detector Commissioning and Tracking



Cosmic-ray track, October 2008 run, B-field ON.
 7.6×10^6 cosmic ray tracks timed-in, aligned, SCT 99% functional.



Evaporative Cooling works

