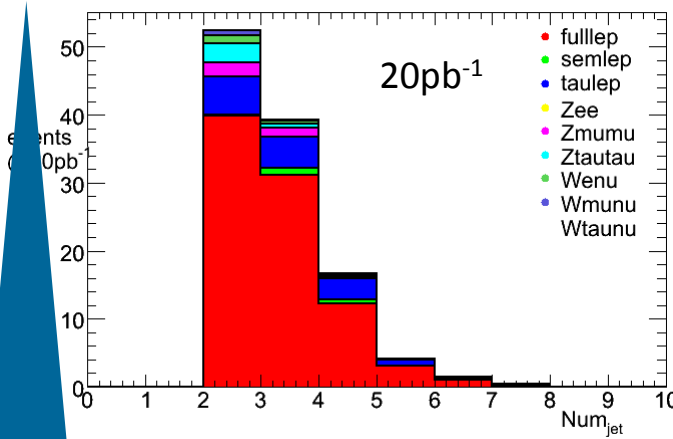


## Measurement of tt+jets cross section

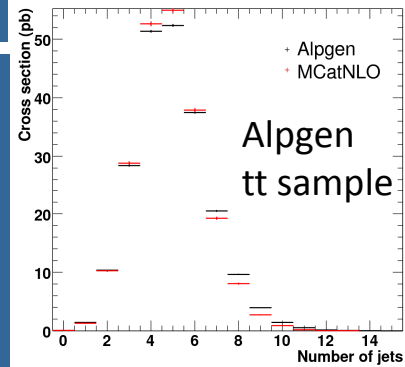


**First euro-tops**

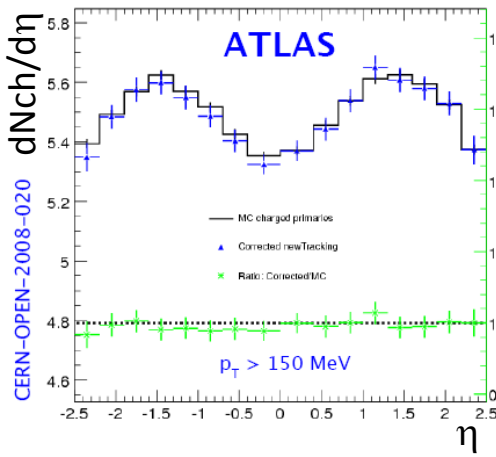
**tt, tt+jets and ttbb cross sections:**

- to test QCD,
- to measure backgrounds to ttH,
- to find SUSY.

Working with Glasgow theorists.



## Early Physics: Minimum bias and di-lepton measurements

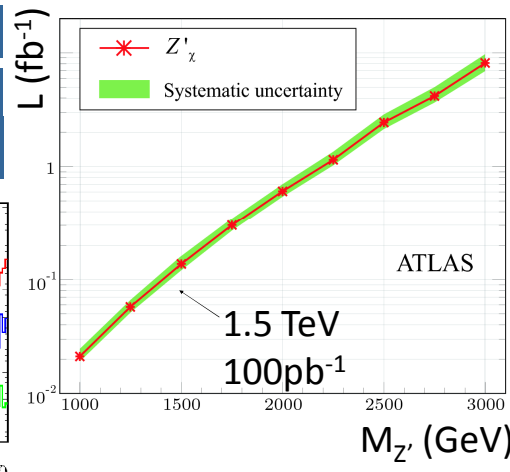


**First ATLAS papers**

**Theoretical and experimental studies**

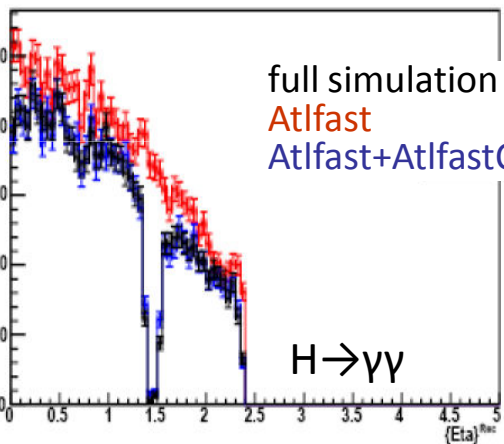
NLO  $M_{ll}$  Corrections

**Drell Yan**



From Software to Physics

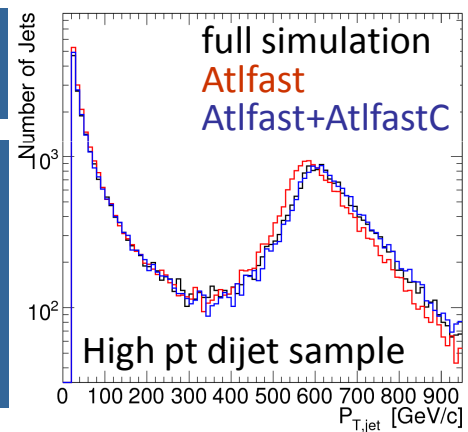
## Fast Simulation Software



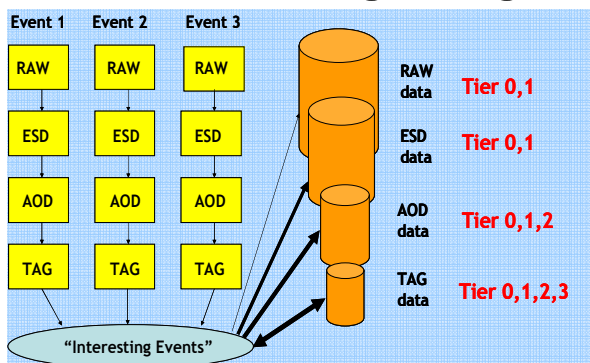
**X3000 faster than full simulation**

**Atlfast + AtlfastC corrections:**

- include efficiencies, fakes and further corrections.



## Metadata and Tag Navigator Tool



**Looking for a needle in a haystack**

ATLAS metadata and access to data:

- TAG service provide summary of event data, allows rapid skimming of many events to find rare processes.
- AMI integrated to VOMS.