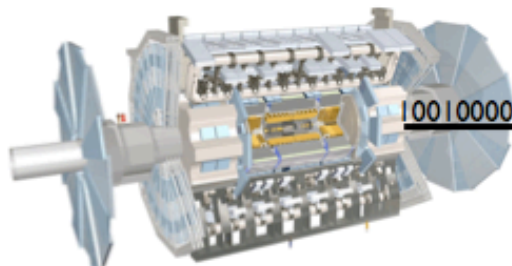


LHC/CERN

**ATLAS**



2-level trigger

40 MHz  $\rightarrow$  100 kHz  $\rightarrow$  1kHz

Trigger  
& DAQ

raw data

100101011

~10 PB/year

# ATLAS

## Data Flow

Worldwide LHC Computing Grid

Monte Carlo production

~100k CPUs  
over 100 PB

Local resources

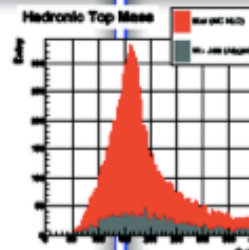
Athena Framework

ROOT

Detector Simulation

Reconstruction

Analysis



Generator

Geant 4  
Fast Shower  
Atfast II



QFT matrix  
element

generated  
MC

primary  
kinematics

simulated  
MC

detector  
hits

reconstructed  
data/MC

tracks,  
clusters, jets

ntuple

~GB-TB

plots/  
tables

Results!