Hampton University Tier3(PPCF) Site Status Report

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Hampton University PPCF

- 60 nodes, 480 CPUS with Supermicro, AMDs
- Additional 15 nodes, dedicated SANs and servers
- Specs:

  - Model : Dual-Core AMD Opteron(tm) Processor 2214 HE, Quad Core AMDs 2350(30x8 CPUs), 2352 (30x8 CPUs)

  - CPUs 3.0 GHz, 2.0 GHz, 2.2 GHz

  - 8 GB memory (2GB/CPU, 40 CPUs 4GB/CPU for special simulations, tests)

  - currently 80 CPUS on Tier3 analysis queue and expect to be added quickly the rest after some tests
- Storage: newly configured 90 TB of disk space using Dell/EMC AX4-5 SAN storage series using iSCSI initiator. ~ 70TB available through NFS mounted. We use xfs as our storage filesystem.

HU PPCF Tier 3 Site Service

- Hampton PPCF Tier3 site is a grid-enabled Tier3 site
  - hugrid02: OSG 1.19 with basics grid services: GUM and grid Condor, others.
  - hugrid01: OSG 1.23 for gsiftp and BestMan.
  - hulx003 as an interactive node and 10 worker nodes
  - Ganglia (WAN) and Nagios (accesible only in LAN) for monitoring
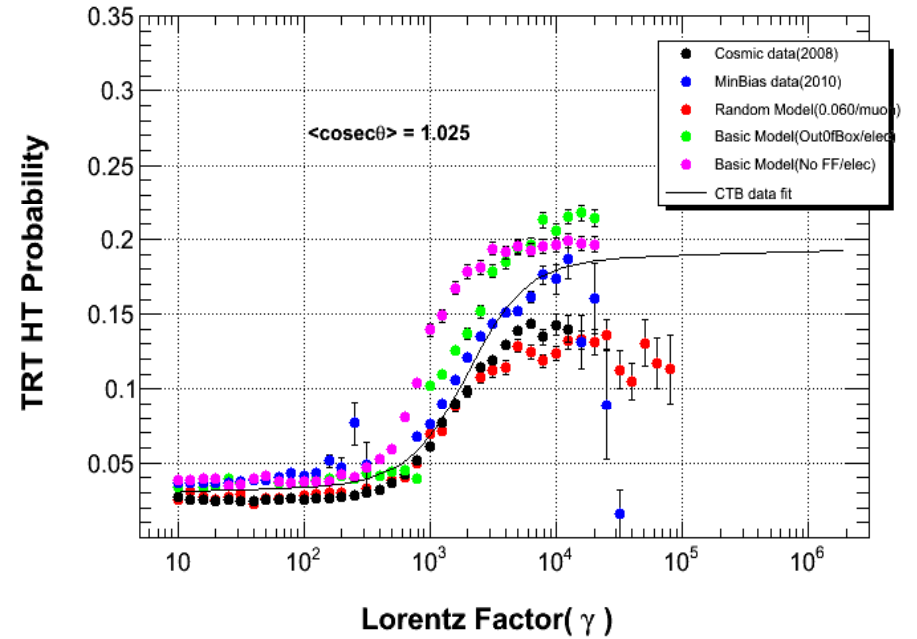- Tier3 analysis queue, Hampon_T3, is currently on test mode due to migration of SE node

PPCF Service Snapshot

PPCF Usage
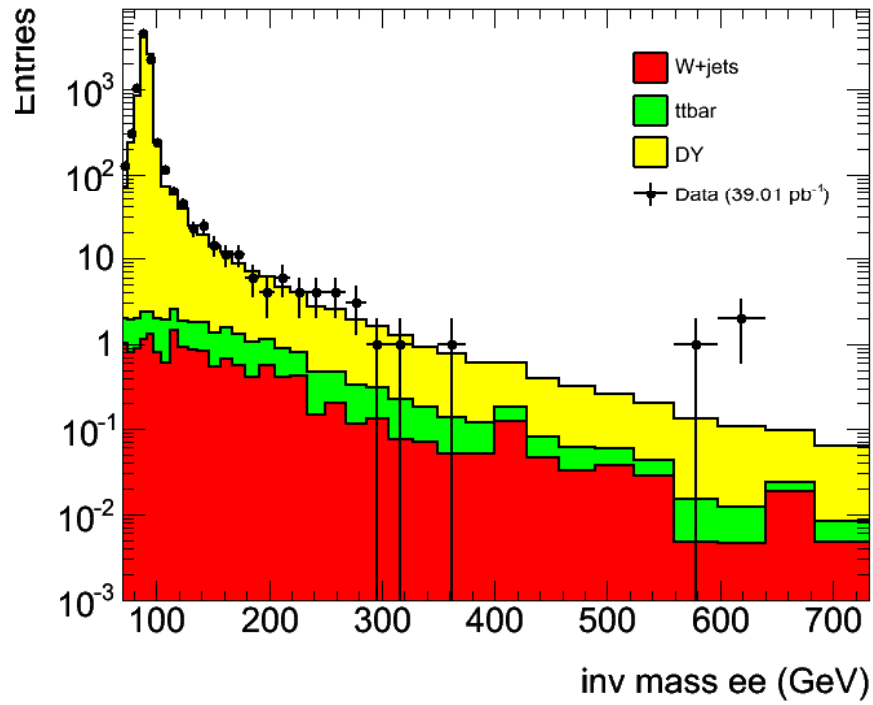
- 2010 data analysis from Tetteh Addy using high pT electron pairs

- TRT simulation to understand angular distribution from Alex Harvey

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Plans

- Testing Tier3(Hampton_T3) analysis queue within week or so: PAT D3PD train validation within Hampton_T3

- Intend to run ATLAS production jobs : need T3 site certificated

- Only 50-60% of our CPUs can be currently available due to power and cooling limitations and instabilities.

- Facility equipment is spread in 3 rooms. Two of them in the same LAN, third to be added soon in LAN.

- Power and cooling will be upgraded to 120% of the facility capacity with a NEW computing room to be available in Feb 2012.