

INFORMATION RELEVANT FOR US

1). The LHC start-up schedule

officially we start with collisions in May 2009

→ in general this is highly unlikely given the important reparations to be taken after the incident 19 sept '08

"My guess": Re-start with beam commissioning late summer
& first collisions in October 2009 and
probably at 10 TeV rather than 14 TeV

(cross-section for $t\bar{t}$ production is 2 times smaller @ 10 TeV)

→ { In 2009 hopefully $\sim 100 \text{ pb}^{-1}$ @ 10 TeV ($\sigma_{t\bar{t}} \sim 400 \text{ pb}$)
In 2010 hopefully $\sim 1000 \text{ pb}^{-1}$ @ 14 TeV ($\sigma_{t\bar{t}} \sim 800 \text{ pb}$)

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2) Our analyses use simulation (Monte Carlo techniques) & some software for reconstruction and analyses

we should all try to use the CMSSW 22X software as soon as possible

released since friday!

the "PAT" should be used for analyses (where needed combined with TQAF)

we should use the new simulation of Summer08 (EE with Madgraph)

there will come soon (some RECO version is there already)

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(3) The new Summer08 samples of simulated events will be distributed over several TIER-2 centres

→ remember the IiHE TIER-2 computing centre is one of the 5 centres in the world for top quark physics

(4) All samples will also be provided in the new DAT format & distributed to TIER-2 centres (incl. IiHE)

("my guess": this will happen by the end of November)

⇒ use these for your analysis !!

(5) For QCD background there are now samples with non-prompt muons & they resemble more the unbiased QCD samples

⇒ use these for your background !!

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(6). All samples of Summer 08 will be re-reco'd in CMSSW 22X

(latest particle flow, latest jet calibrations, ... many new features)

↓
the Madgraph samples will also be redone in CMSSW 21X because a problem occurred (= error) to store the trigger information

(7). Those using "old" CMSSW 16X samples: make sure you have a local copy somewhere because both the samples & software release could disappear at some point

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(8). Approval of new analyses to be shown on conferences will continue

→ pre-requisite: need to use CMSSW 22X & Summer 08 or later samples

↳ a large FastSim production is being prepared

⊕ full data driven for background estimation
(wherever possible of course)

→ CMS top quark group aims for Moriond/La Thuile '09

- cross section estimation (full QCD & W+jet bck)
- Z channel cross section
- update of jet energy scale measurements.
- b-tagging from top quark events.

(maybe more...)

