

Physics Comparison and Generator Tunes

- **News and announcements**
- **discussion on how to tune energy dependence**

Physics Comparison and Generator Tunes

- **News and announcements:**
 - group Twiki page is developing:
<https://twiki.cern.ch/twiki/bin/viewauth/CMS/PhysicsComparisonAndGeneratorTunes>
 - **new page for tuning created**
 - **RIVET tutorials (thanks to Albert & Lars)**
 - discussion with TOP PAG
 - first version for TOP-13-007 (Underlying Event studies in ttbar and fragmentation studies) **exists**
 - started with TOP-12-028 (Measurement of the differential ttbar cross section in the dilepton channel at 8 TeV)
 - TOP tutorial in November
 - contact to SUSY people (Rivet activity started already with DESY summer-student)
- **these are super-great news !!!**

Do we need “old” 2010 data ?

- from D. d'Enterria, J. Hollar (FSQ conveners)

More MC news

- From Phys. Coord./PPD:
 - Call for submitting MC samples needed for Run2 analysis
 - Will be GEN-SIM only first, with RECO to be done later in a release to be defined
 - Samples should be submitted ~now to be ready by Summer 2014

<https://indico.cern.ch/getFile.py/access?contribId=2&resId=0&materialId=slides&confId=224458>

- Question from PC on reprocessing 2010 data with the same 53X release used for the “legacy” 2011 reprocessing
 - Will be considered only if there is enough interest from physics analyses
- is there a need for us to keep “old” 2010 raw data for future ?
- could there be a reason that we need to re-analyse 2010 data for tunes and comparison ?

Tuning efforts

- MB tuning effort has started (Patricia & Arthur)
 - starting with Phase 0 (from Arthur's presentation last week)
 - Professor files produced, envelopes
 - issue is how to tune energy dependence with professor ?
 - **discussion later today**
- UE tunes progressing
 - first steps for \sqrt{s} dependence → see later
- Do we have all Rivet plugins available
 - $dn/d\eta$ CMS-Totem plugin ?
 - UE from CMS ?

PCGT meetings – theorists presentations

- 18. Oct 2013
 - **Peter Skands: Tuning: what to tune and what not**
- 25. Oct 2013
 - **Andrzej Siodmok: UE and MPI in herwig++**
- Please join and come with questions !

Agenda


Physics comparisons and Generator Tunes

Friday, 18 October 2013 from **14:00** to **16:00** (Europe/Zurich)
at **CERN (42-R-407)**

Manage ▾

Video Services Vidyo public room : Physics_comparisons_and_Generator_Tunes [More Info](#) | [Join Now!](#) | [Connect 42-R-407](#)

Friday, 18 October 2013

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|---------------|---|---|
| 14:00 - 14:10 | News & Announcements 10' | ▾ |
| | Speakers: Hannes Jung (Deutsches Elektronen-Synchrotron (DE)), Richard Dryden Field (University of Florida (US)) | |
| 14:10 - 15:00 | Tuning: what to tune and what not 50' | ▾ |
| | Speaker: Peter Skands (CERN) | |
| | Material: Slides  | |
| 15:00 - 15:20 | First steps for energy dependence of tunes 20' | ▾ |
| | Speaker: Samantha Katherine Dooling (Deutsches Elektronen-Synchrotron (DE)) | |