

Status update

Frank Siegert

Institute for Particle Physics Phenomenology
Durham University

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Self contained SHERPA

- 1.1.0 released in April 2008
- Latest bugfix release 1.1.2 in August 2008
- Works fine with Rivet interface

New features

- AHADIC – Cluster fragmentation module
- HADRONS – Complete hadron and τ decay module
- PHOTONS – QED radiation in the YFS formalism
- CKKW merging for processes with decay chains

Will be used for practical sessions in Debrecen.

ME generators

- AMEGIC
- COMIX

Shower generators

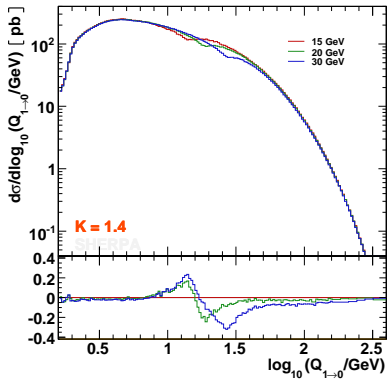
- APACIC
- CSSHOWER



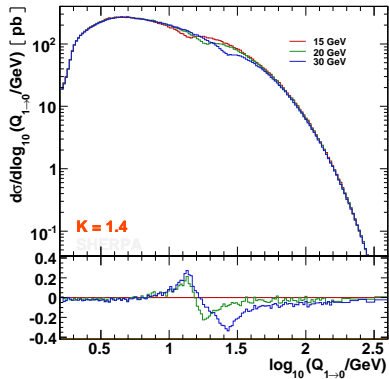
More general CKKW merging interface

- Generator agnostic
 - More flexible signal process handling, combine multiple ME generators for different processes in the same run
 - shower-specific clustering definitions used by ME to cluster its amplitude for “shower history”
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- Studying merging systematics of different combinations right now
 - Eventually going to be in version 1.2 (\approx end of 2008)

AMEGIC \otimes APACIC



COMIX \otimes APACIC



Preparation of Debrecen school

- All event generators run through Rivet/AGILe
- Test SHERPA interface \Rightarrow worked fine, minor modifications accepted
- Students supposed to write ttbar analysis themselves, we are still working out the details for a meaningful but simple analysis

My experience with Rivet

- Nice framework for running the generators
- Some parts have been improved very recently and are still improving (especially in jetfinder steering and features)
- Sometimes using MC truth to avoid complicated analysis, have to be careful to really be generator independent \Rightarrow usually means only look at final state particles (which can still be MC truth, e.g. ν)