

SHERPA tunes

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LHC-EW WG: Jets and EW bosons



SHERPA tunes

- SHERPA comes with exactly one tune
- 1) tune **hadronisation** parameters to **LEP data**
 - iterative between event shapes and hadron multiplicities
 - colour-reconnection found not to be needed to improve tune
- 2) tune **intrinsic transverse momentum** parameters to **LHC DY data**
 - no Tevatron data, as mostly corrected to unphysical Born leptons
- 3) tune **multiple interaction** and **beam remnant** parameters to **LHC data**
 - model rather basic, but key observables can be described
 - currently no Tevatron data used
- LEP data mostly ALEPH 2004 event shapes
LHC data selection somewhat ATLAS biased for historical reasons