

MC Activities of German groups in Atlas

(as presented in Atlas MC meetings)

Activities involving first data:

- Vector Boson + jets studies with Sherpa (T.Kuhl et al., Wuppertal)
- MC Tuning for min.bias and underlying event (Freiburg, HU Berlin - covered in other talks; Desy S.Kama, J.Katzy)
- Helac/Phegas vs Sherpa in gamma+jets (Z.Qin, DESY)

General generator validation and activities for next-to-first data:

- MC@NLO validation/expert for top (G.Khorauli, Uni Bonn)
- POWHEG validation/expert for top (U.Husemann, DESY)
- Sherpa validation/expert (W.Mader, Dresden)
- PDF reweighting (G.Khorauli, Uni Bonn)
- Generator Validation (DESY):
 - tau decays in various generators (herwig++, sherpa, tauola, pythia using MCTester)
 - development of HepMCAnalysis Tool for various checks
 - herwig++ validation for SM and Susy processes

Searches:

- Whizard for heavy gauge bosons (F.Bach, Wuerzburg)
- Black hole studies (BlackMax) (V.Lendermann, M.Henke, Heidelberg)