

Powheg WWbb NLO+PS in ATLAS



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(and of course, Tomas Jezo!)

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LHC Top WG Meeting

Orange: private production, mimicking as close as possible the authors setup.

16 cores with 0.1-0.2% precision on btitle, remnants and the totals (me); 0.1% precision with 64 cores (authors)

Green: fully exercised
We have first samples and plots (though not public)

Powheg

Integration Grids

LHE

HepMC (via Pythia 8)

EVNT (ATLAS HepMC format)

Truth DxAOD

truth-level analysis format

Geant4 + Digit + Reco -> (D)xAOD

Integrated into ATLAS on-the-fly production, but not optimized for the needed precision

New userHook needed; discussing with ATLAS MC team how to best approach this

ATHENA job on HepMC output