

Benchmark tutorial update

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- ▶ Vilnius University plans to contribute to “LCG-EW Jets and Vector bosons” benchmarking efforts
 - ▶ Manpower is small: M.Ambrozas (graduate student) and A.Juodagalvis (senior)
 - ▶ We are novice in use of generators

- ▶ Hannes Jung has put together Benchmark tutorial that seemed to be convoluted
 - ▶ Instructions suggest to copy contents of his directory that is growing each time he runs the code by himself
 - ▶ A.J. has experience in git, running code on lxplus, working with CMSSW and complicated analysis codes
 - ▶ For starters, the tutorial was made more elegant and educational
 - ▶ A new branch ‘tutorial’ was created in a forked repository
 - <https://gitlab.cern.ch/andriusj/benchmark-comparisons/-/tree/tutorial>
 - ▶ The Instructions are also attached to this [contribution](#)

A few highlights

- ▶ The steps of trying Madgraph, performing showering with Pythia8, running Rivet and getting the plots were made more explicit
- ▶ The tutorial with a minor exception on using a file from H.Jung directory that contains many simulated Jet events is self-contained
 - ▶ “Use `git clone` and follow the instructions” approach
- ▶ Uses LCG-compiled code (with an exception for the modified *main31*)
 - ▶ LHAPDF use is still not “cracked”
 - ▶ a local copy of Pythia8 is not used
- ▶ Since the steps are more spelled out, it might be easier to understand where corrections should be introduced
 - ▶ Further improvements are expected