Update on the EPOS production

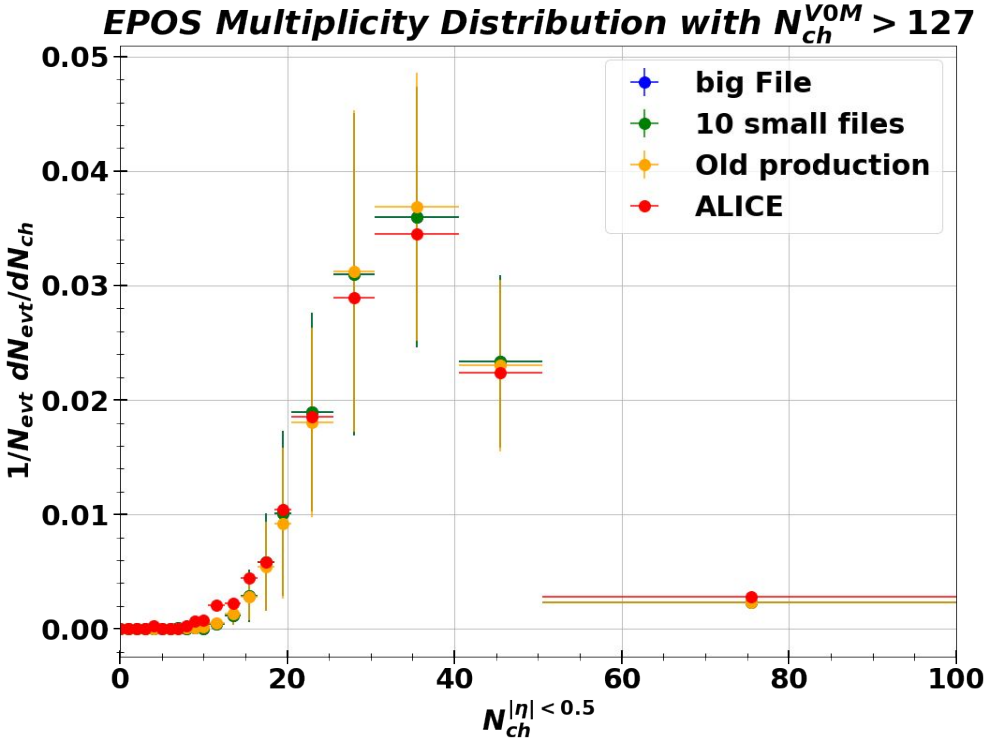
Status of the simulation

- pp collisions at 13 TeV, with EPOS
  - all the code was set up to work with ROOT6
- the production has been tested also on VIRGO cluster @GSI:
  - Tests carried out on 1M events: proton spectra and multiplicity reproduced
  - Same results for 10 output files and 1 merged file -> safe to use hadd
  - Time for analysing the files: ~10 min tbcw ~ 1h that we had in the past
- Current available statistics:
  - 47M events on VIRGO cluster
  - 3M on the local farm
- ETA for 300M events: ~ 25 June

On the LRZ

- There are some limits:
  - only 6 partitions are accessible to us (2 are only for testing purposes)
  - each partition has specific limits on the number of submitted jobs
    - when the quota ends one loses priority
    - FORTRAN libraries in EPOS have some instabilities:
      - 3/4% of jobs fails
      - Klaus Werner provided a fix
- After the implementation of the fix one can obtain
  - 1.5M events per day from the parallel partition
  - 0.5M events per day from the serial partition
  - Currently limited statistics from LRZ, but there seems to be a bias in the pt shape of simulated protons:
    - to be investigated

Comparison of the multiplicity between productions



Proton spectra comparison (p+pbar)