

Cascade developer meeting

- Hope that you are all ok !

Next Conferences/workshops

- **EPS** from 26 – 30 July 2021 (deadline for abstracts 7 May 2021)
 - QCD and Hadronic Physics
 - PB TMD densities – Sara merged with Lissa's talk
 - PB final state comparisons – Armando (submitted)
- **ISMD** from 12 - 16 July 2021 (deadline 15 June 2021)
 - submit abstracts as for EPS

PB TMD school

- schedule it close to REF workshop
 - who can help ?

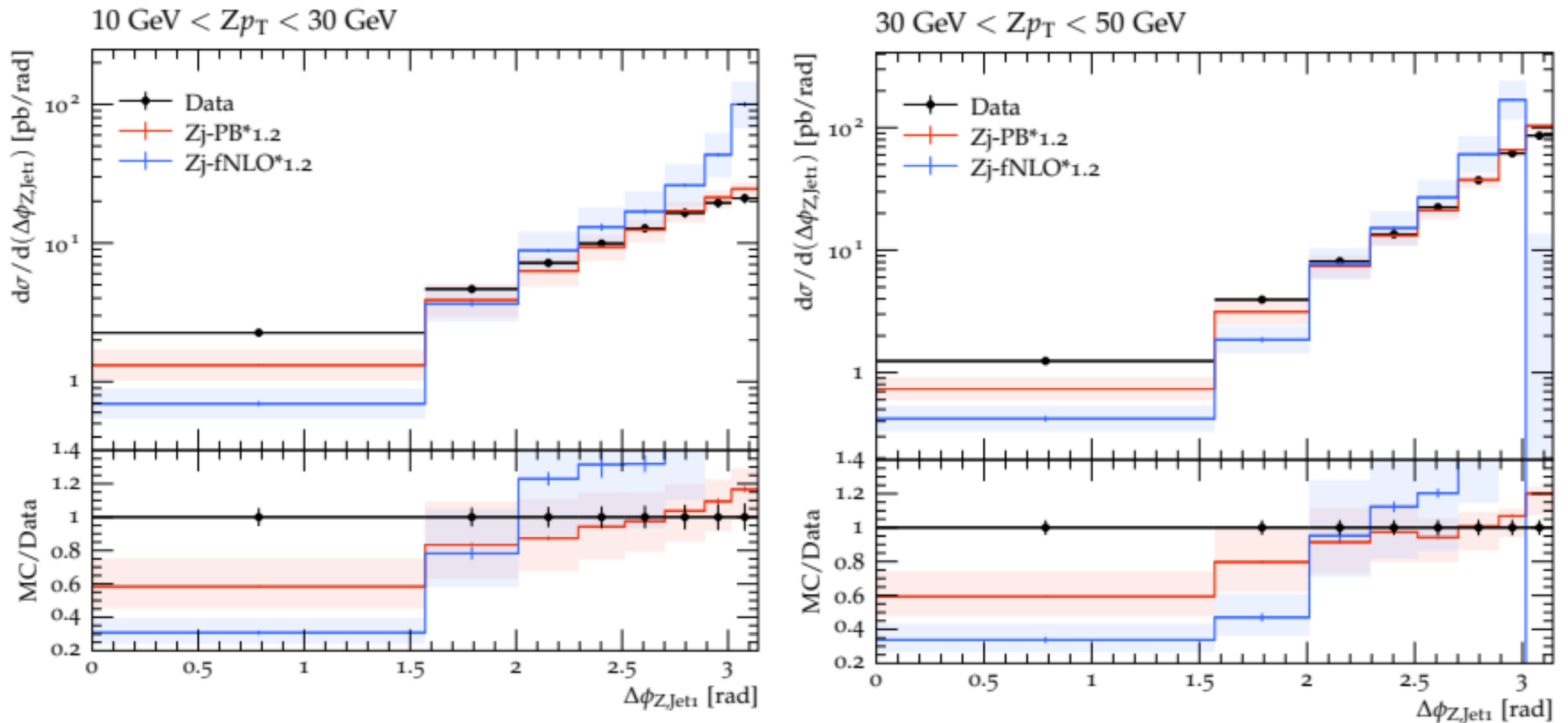
News on CASCADE

- CASCADE3 article is published in [EPJC](#)
 - thanks a lot for all contributions
- News on CASCADE
 - option to read gzipped file directly (using zlib package)
 - selection is done automatically, depending on name of input file.
- Bug in FSR corrected:
 - wrong scale was used for FSR (squared instead on sqrt)
 - please check, has some small effects on distributions

CASCADE3 and final state comparison

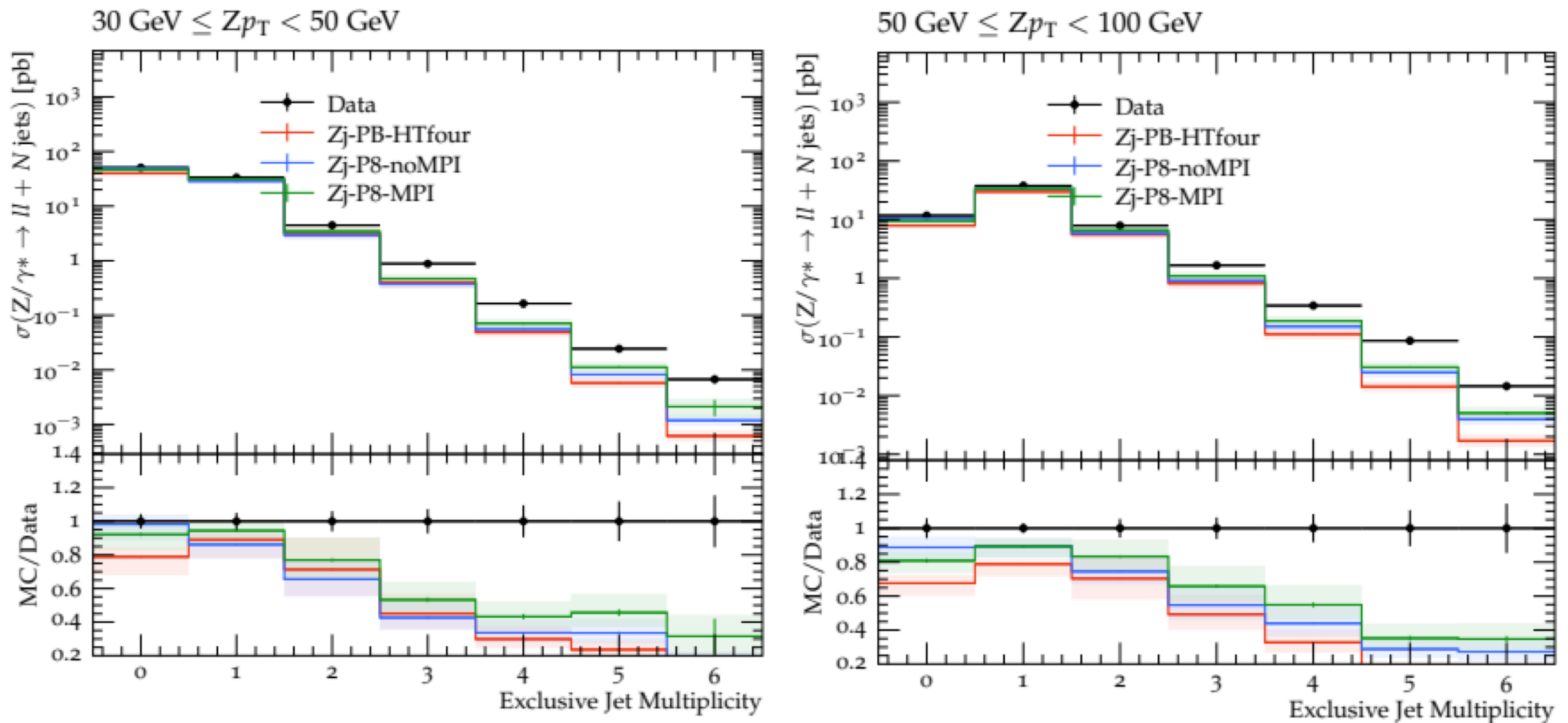
- We have 2 CMS papers in pipeline:
 - SMP-21-003: Azimuthal correlations in Z+jets at 13 TeV (ready for EPS !)
 - SMP-21-006: Multijet differential cross sections at 13 TeV (ready for EPS!)
- we will have PB – TMD predictions in these CMS papers
 - need good interpretation
- We should plan for a publication on final state comparisons:
 - multi-jets and Z+jets
 - Aim: understand physics, not necessarily obtain best data description
 - have a clear estimate of uncertainties
 - which processes contribute where
 - role of parton shower – ME
 - get a global picture – not only special distributions
 - Time schedule: ready during summer (covering results which go to EPS)

Comparison with fixed NLO



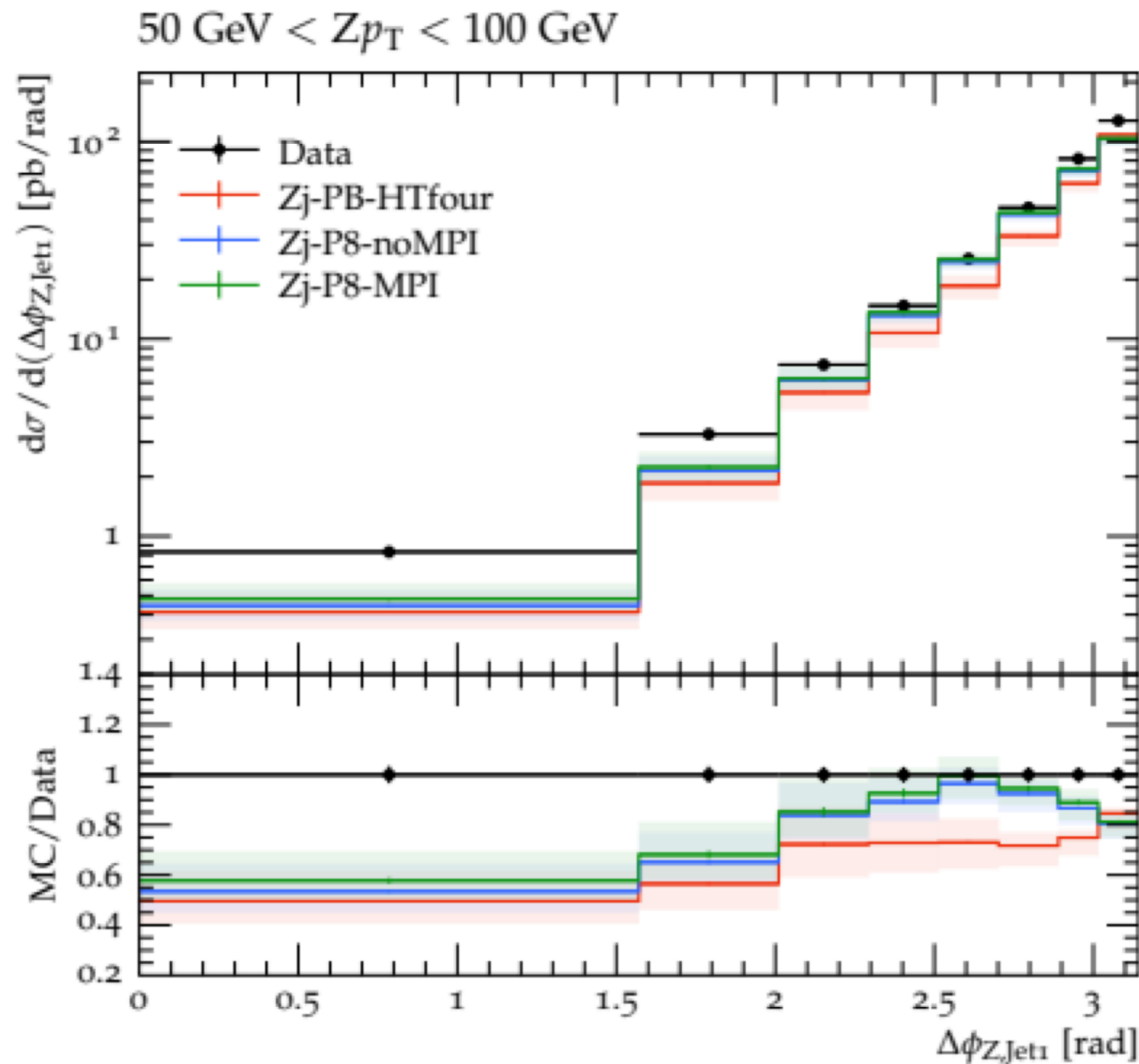
- Clear difference with fixed NLO
 - showing effect of PS

Comparison with P8



- PB and P8 give similar contributions from PS
 - normalization effect

Differences PB - P8



- differences in

AOB
