

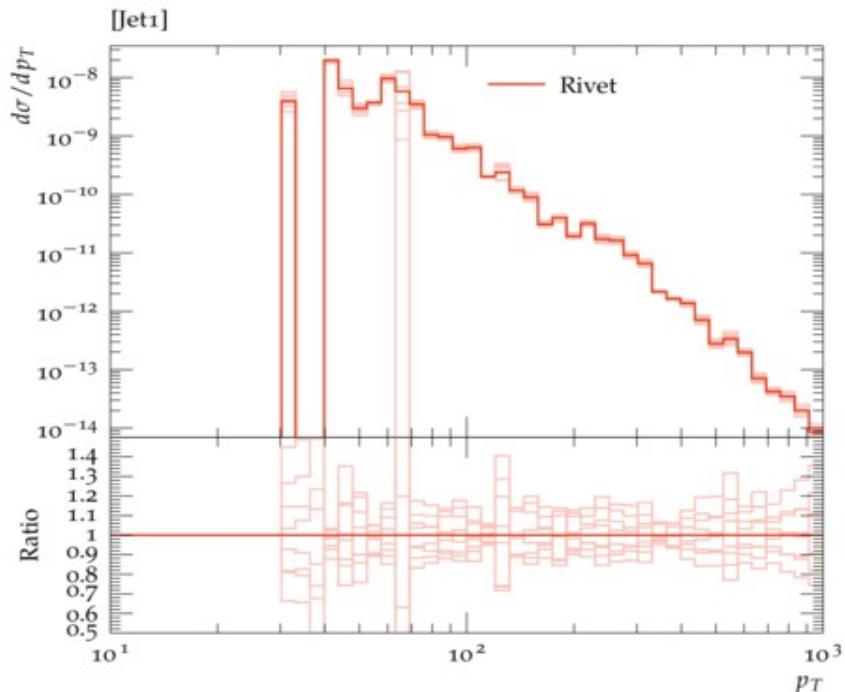
Investigation of jet algorithms in Z+J events

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Hamburg 23.06.2022

PtJet Spectra

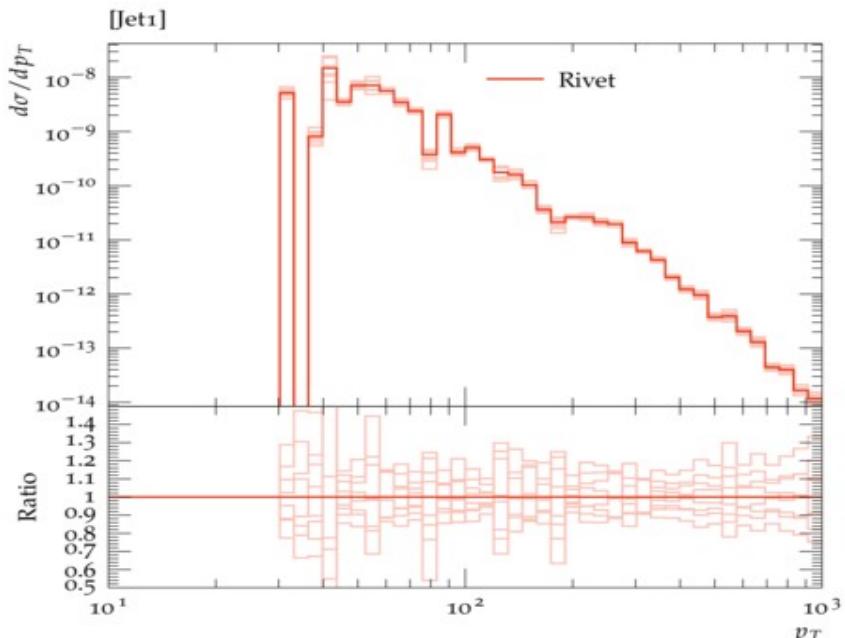
Pt1ak4wta

- ak4 is anti kt algorithm R=0,4
- wta=winner takes all clustering



Pt1ak8

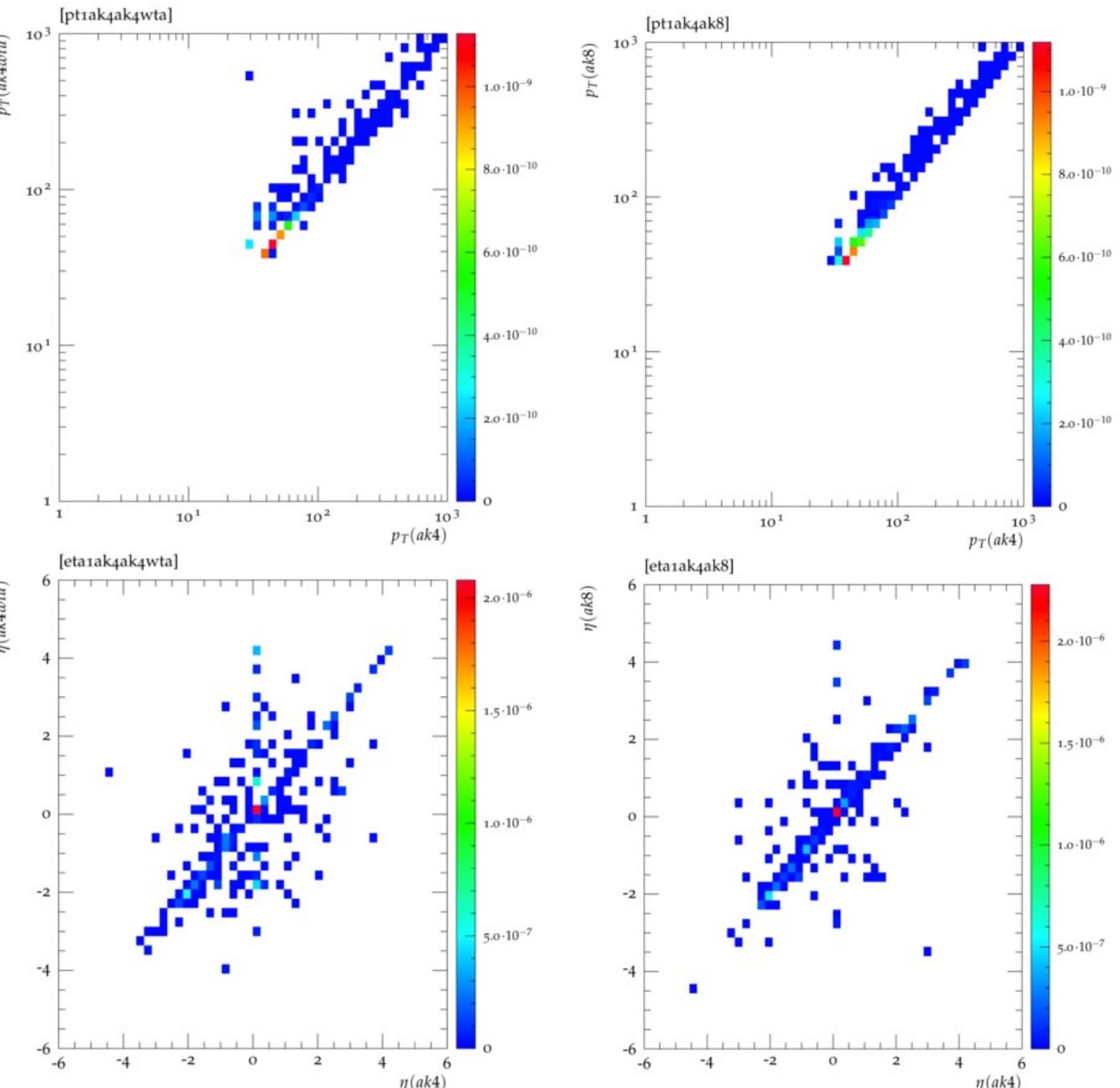
- ak8 is anti kt algorithm R=0,8



correlations

Pt correlations

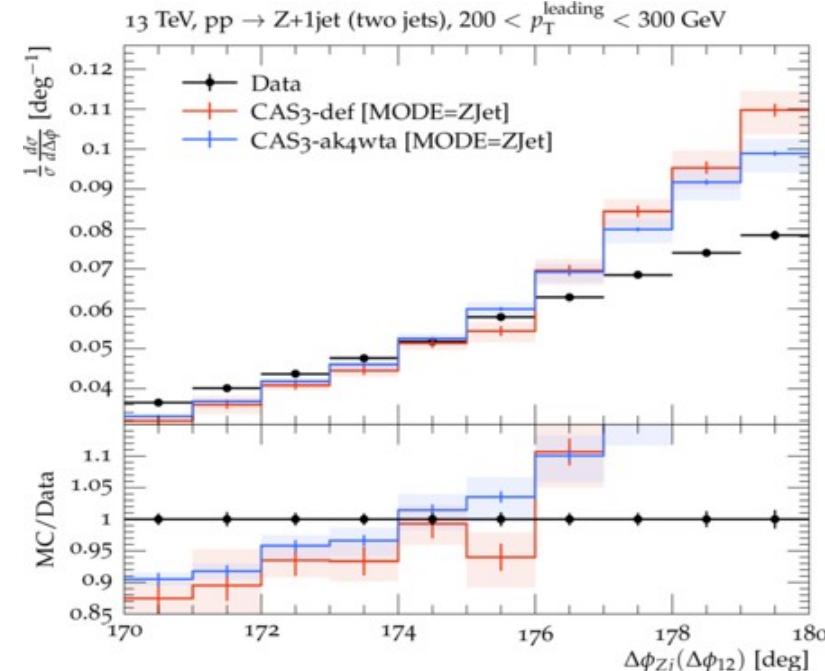
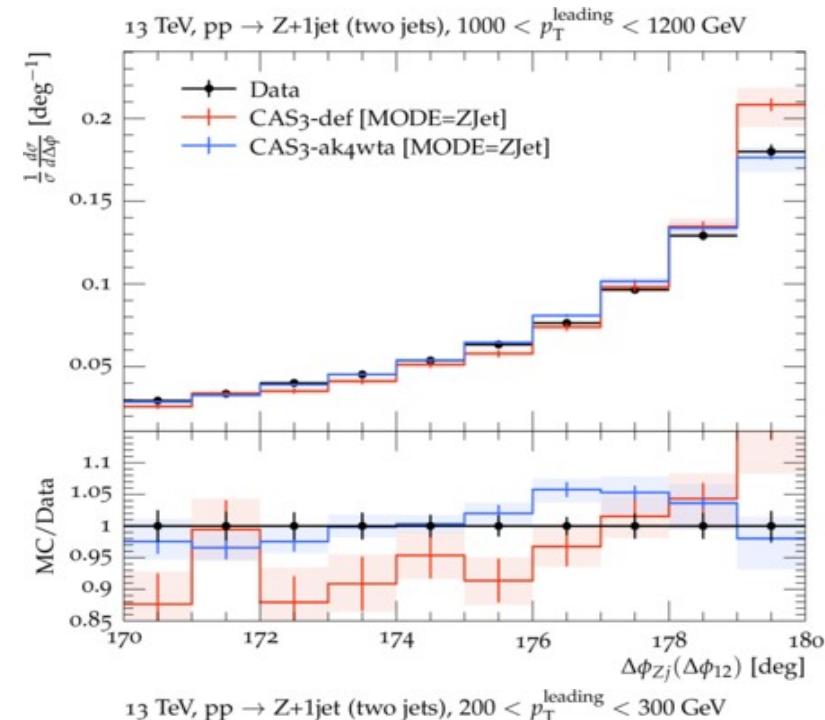
- ak4 versus ak4wta
- ak4 versus ak8



Z+J azimuthal correlation

ak4ak4wta comparison

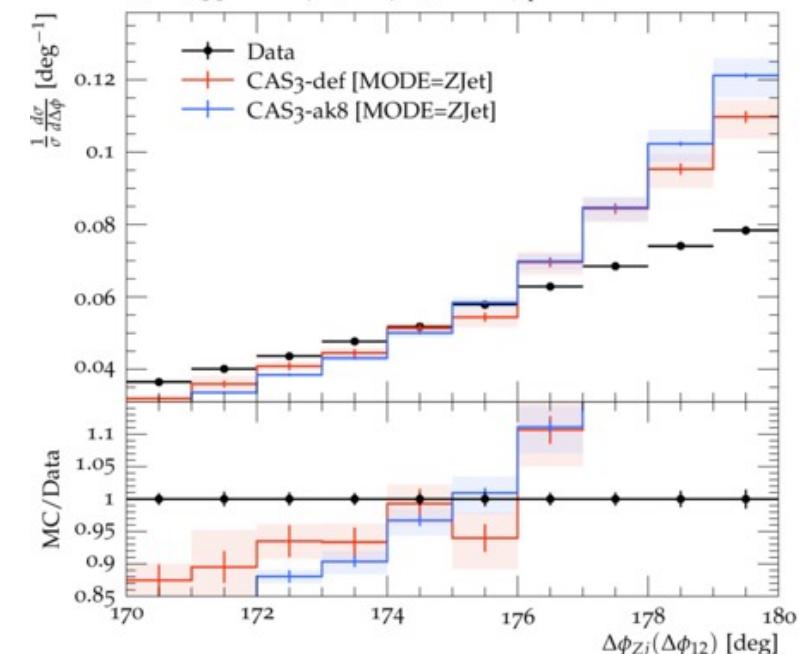
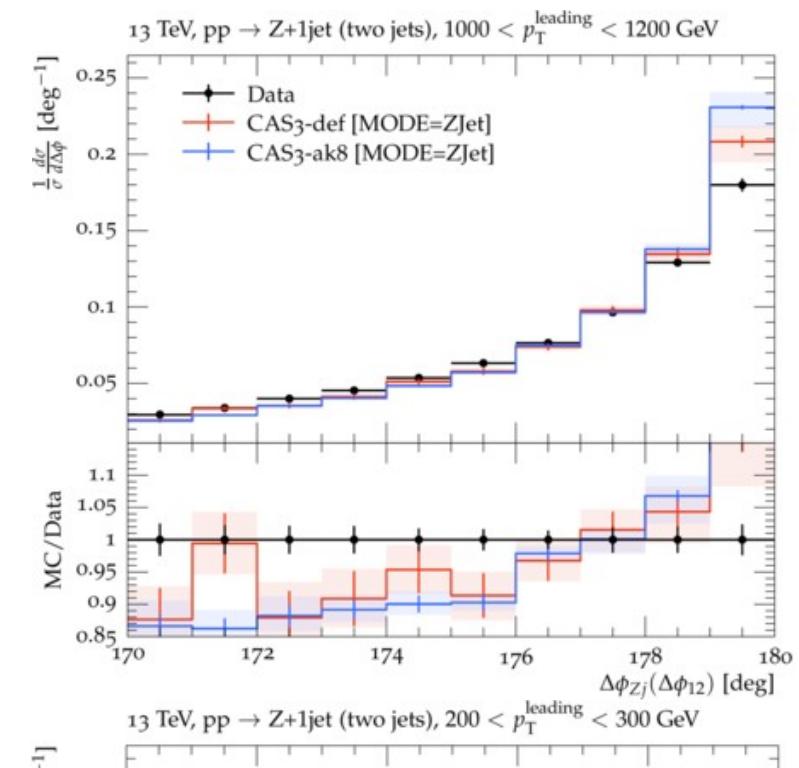
- Higher Pt = bigger difference in the “back to back” region
- Only different in the “back to back” region
- Lower Pt = almost no difference in the theoretical prediction



Z+J azimuthal correlation

ak4ak8 comparison

- High Pt = no difference in the “back to back” region
- Low Pt = small differences
- High Pt difference between ak4ak8 is reduced



Thank you for listening :)

