HF jets analysis

03.02.2020 ALICE@IFJ meeting

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Outline

1. What was done in analysis
2. CERN activities
3. Plans for next week

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What was done

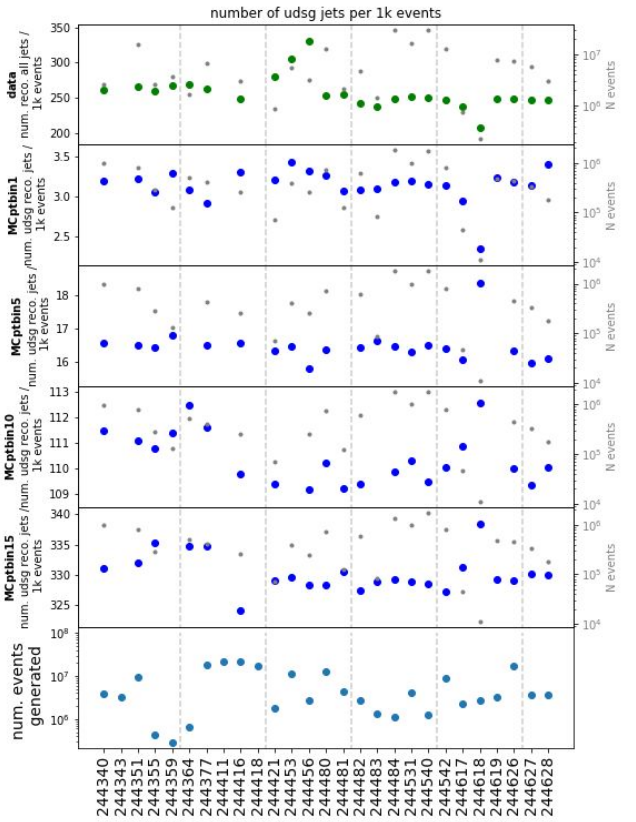
1. check uniformity in phi (we are using hybrid tracks)
   ~3% drop - OK?
   some runs are uniform and some have a drop

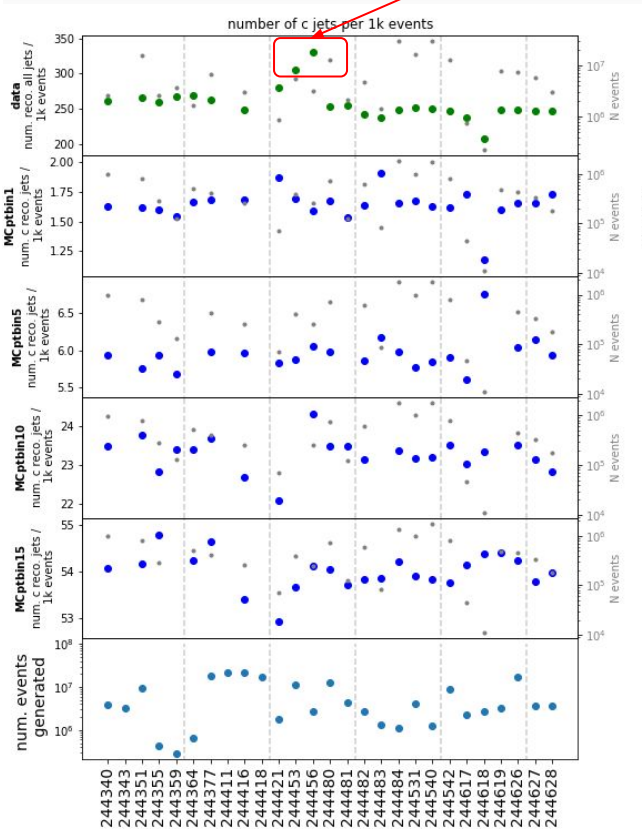
2. nothing suspicious found for 244456 and 244453
   triggers yet to be checked

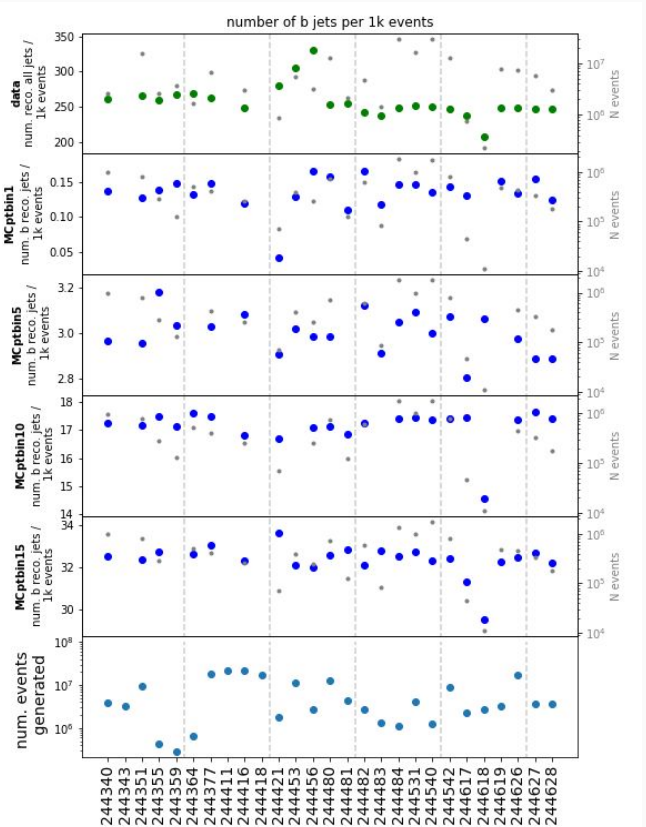
3. bump at IPd ~ 0.25
   comes from *complementary tracks* from hybrid tracking

Reminder: run-wise QA (number of jets)

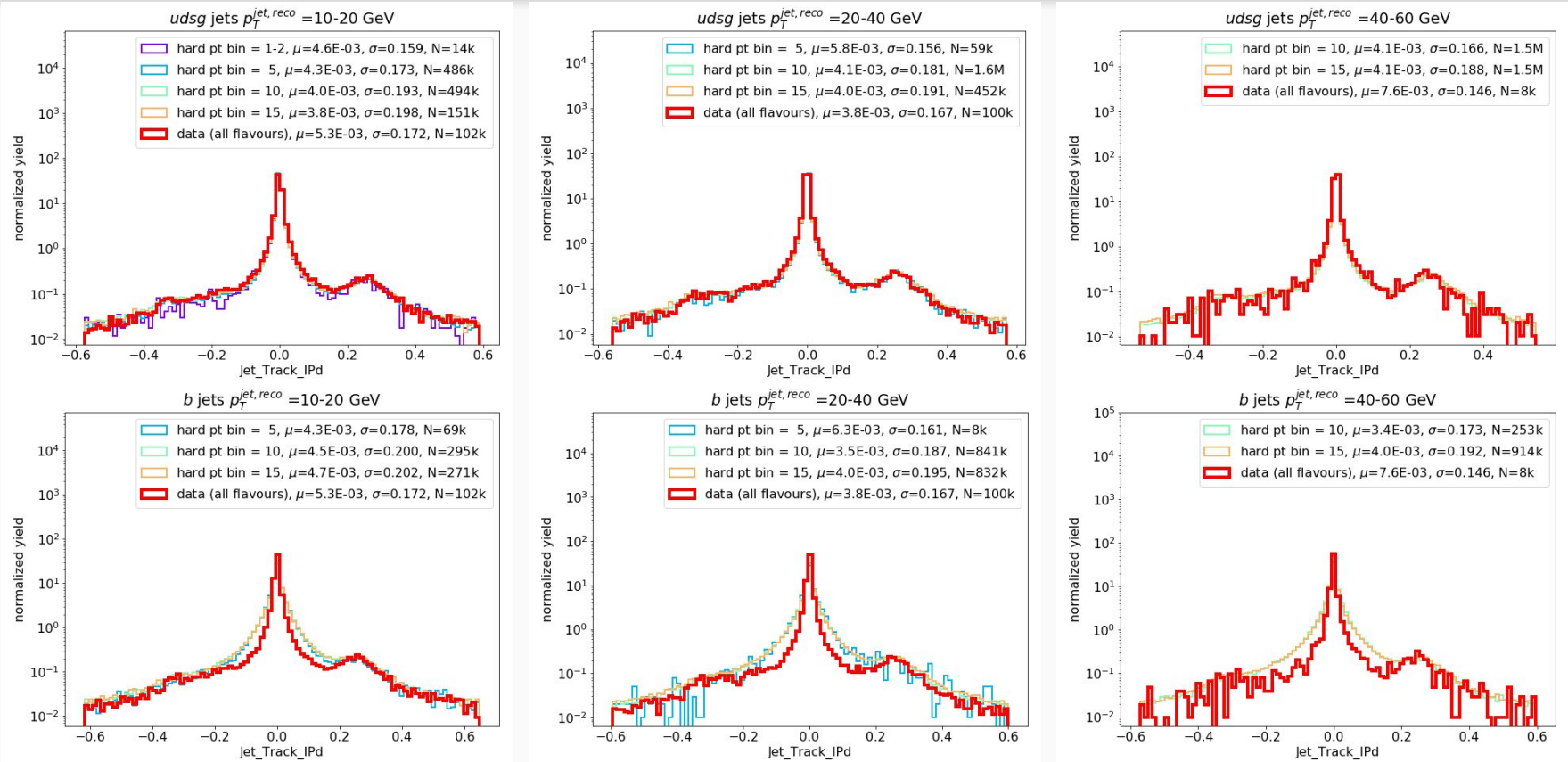
stable no. jets / event in runs
1 run (244456) with 40% more jets







Reminder: track's IPd *new* udsg vs b (zoomed)



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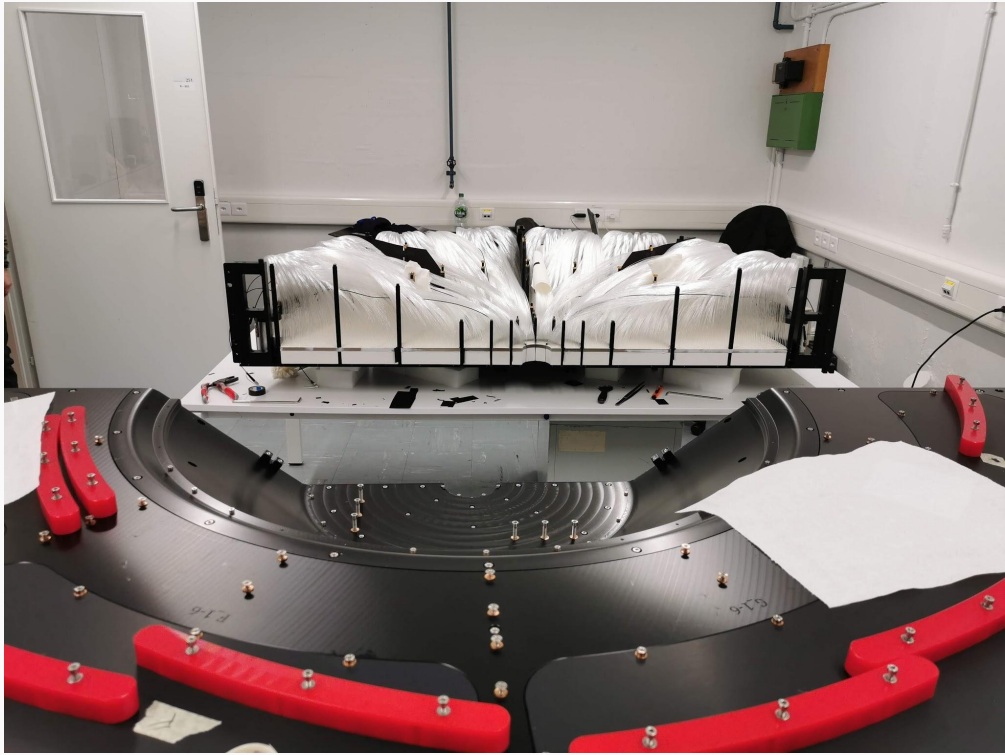
1. What was done
2. **CERN activities**
3. Plans for next week

CERN activities

- tests of FV0 are ongoing
  - all PMTs installed on the second half
  - laser - optical cross-talk
  - muons spectra
- electrical (non-optical) signal picking
  - our solution does reduce picked signal to acceptable level but maintenance is problematic
  - other solution is desirable
- no update on QA



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Plans for next week (after discussion)

1. compare phi distribution with MC
   - total and 1 uniform and 1 non-uniform runs - how well are they reproduced
2. QA for 244456 (and 244453)
   - check triggers settings - it should not be the case as the pT spectra does not differ
   - check global event properties: event multiplicities, event vertex distr.
   - check RCT & logbook
3. rather small stats of pp@5.02TeV -- what with the reference for PbPb? check approaches in PbPb@5.02TeV papers

BACKUP

lower_edges=(5 7 9 12 16 21 28 36 45 57 | 70 85 99 115 132 150 169 190 212 235)
higher_edges=(7 9 12 16 21 28 36 45 57 70 | 85 99 115 132 150 169 190 212 235 -1)

momentum dispersion: $p_T D = \frac{\sqrt{\sum_{i \in jet} p_{T,i}^2}}{\sum_{i \in jet} p_{T,i}}$.

angularity: