# ITS - TRD/TOF interpolation. TPC space point distortion calibration.

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### **JIRA**

### ATO-108 - ITS - TRD/TOF interpolation. TPC space point distortion calibration.

- https://alice.its.cern.ch/jira/browse/ATO-108
- https://indico.cern.ch/event/374111/contribution/6/material/slides/0.pdf
- Code implemented and used for open gating grid analysis
  - https://alice.its.cern.ch/jira/browse/ATO-16

## •(ATO-230) Fit of the distortion maps from open gating grid analysis with ANALYTICAL models

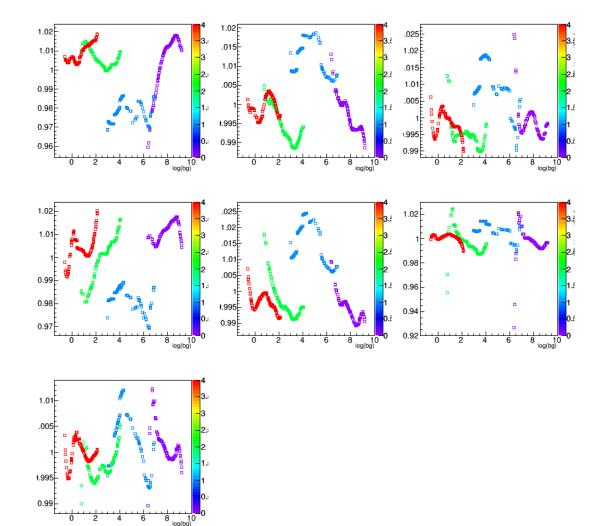
- https://alice.its.cern.ch/jira/browse/ATO-230
- https://indico.cern.ch/event/360660/contribution/5/material/slides/0.pdf
  - Ongoing activities with RUN3 preparation

- •Code in the macros
- •Test with calibration components starts this week using raw data
- •Merging procedure to be solved
  - trees grouping in chunks of O(1 GBy)
- •AliNDLocalRegression for representation of residual distortions
- •Parameters of analytical distortion models as a QA

Transfer function calibration

•Comsic selected muon and V0 selected particles used in global dEdx(BG) and transfer fucntion fit

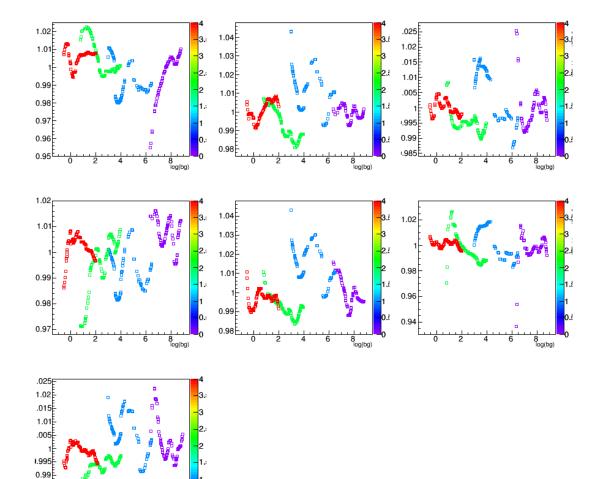
### **Transfer function calibration - LHC10e**



#### •TPC dedx in different pad region corrected for "simple" transfer function

8

### **Transfer function calibration - LHC10d**



### •TPC dedx in different pad region corrected for "simple" transfer function

8 log(bg)

6

1.985 0.98