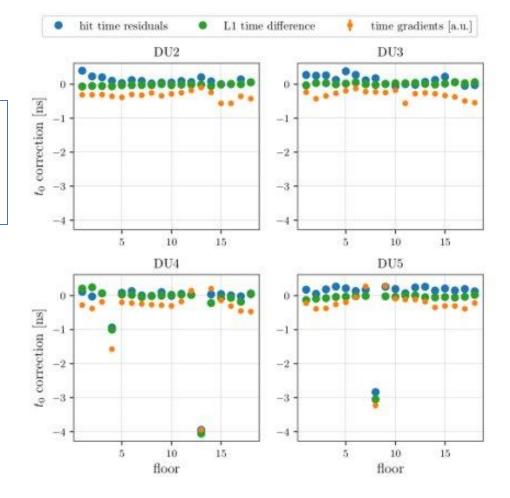


Hit time calibration vs L1dt calibration: modification b

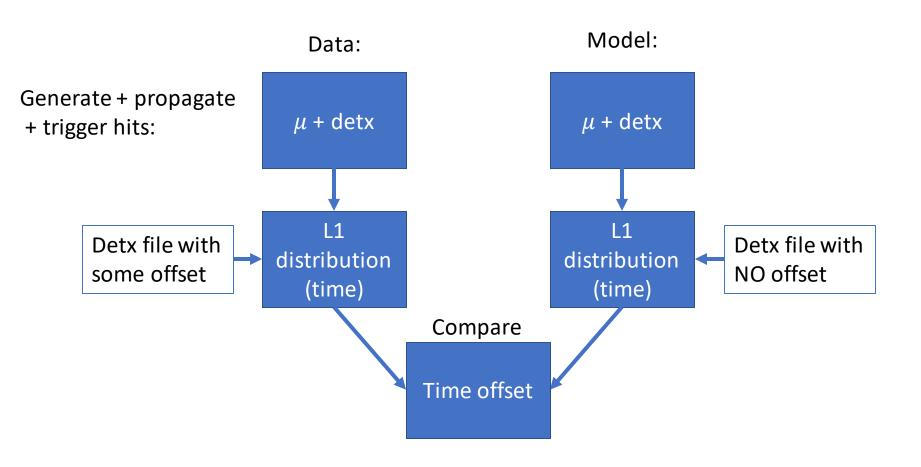
Adjustment:
DU4DOM4 +1ns
DU4DOM13 +4ns
DU5DOM8 +3ns



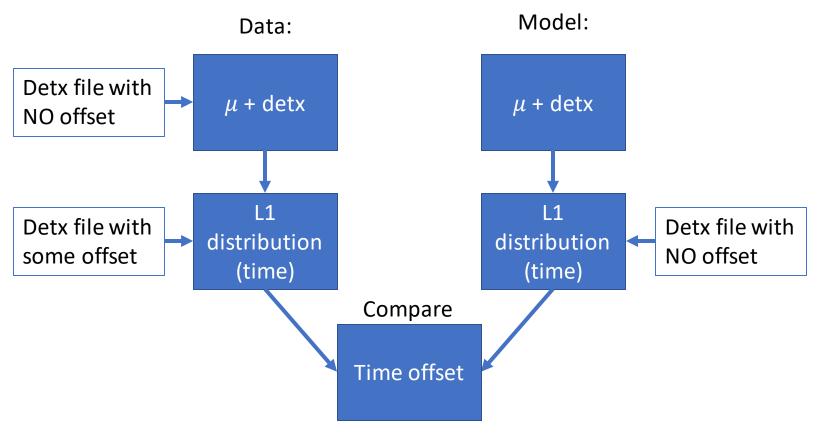
Approach

- Check all configurations of data_processing (this creates the muon hits)
- Check if files are copied properly (lyon->stbc)
- Check mathematics of method (already works in some cases, so should be fine)
- Check implementation of fit

Schematic of L1dt fit

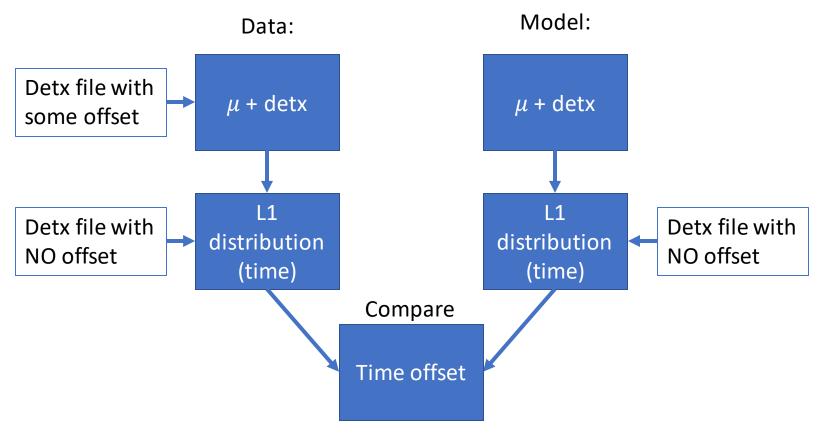


Schematic of L1dt fit: Situation A



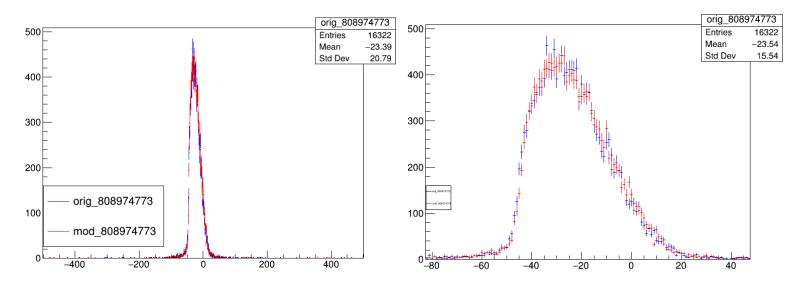
Finds the time offsets: they are introduced in the L1 creation by detx Finds NO spatial effects in time offsets: can not introduce in L1

Schematic of L1dt fit: Situation B

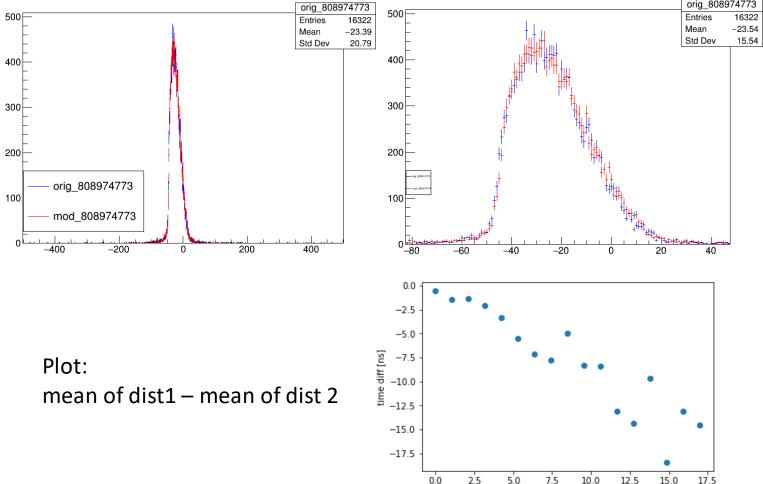


Finds the time offsets: they are introduced in the gen/trig step Finds spatial effects in time offsets: they are introduced in the gen/trig step

Distribution different? Eyeing it is not enough!



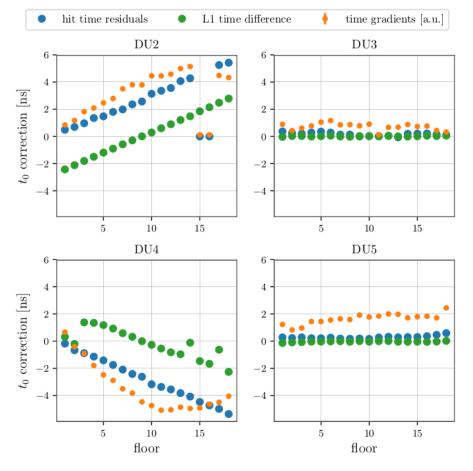
Distribution different? Eyeing it is not enough!



DOM floor

Hit time calibration vs L1dt calibration: time offset equivalent to stretch

DU2 -0.3ns for each DOM pair DU4 +0.3ns for each DOM pair



NB: DOM9 is chosen as reference in L1dt

L1dt calibration: stretch detector

