HCAL+BBCAL Meeting

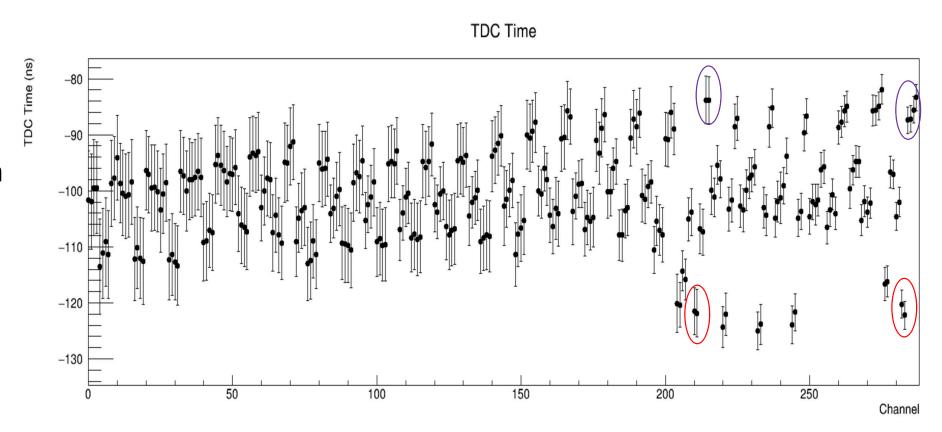
09/14/2022

Updates:

- BBCAL PMT base replaced (Arun, Provakar)
- HCAL timing offsets (Jiwan, Sebastian): Cosmic run with paddle trigger
 - ~10 ns variation among PMTs (columns 5, 6, 7, 8 PMTs compared to others)
 - More dispersion (~40 ns) in the bottom half of HCAL (reason??)
 - Delayed in Front End or back end units?
- Coincidence between BBCAL and HCAL (Jiwan)
 - Effect of dispersion in Summing module
 - Threshold vs width vs multi-trigger

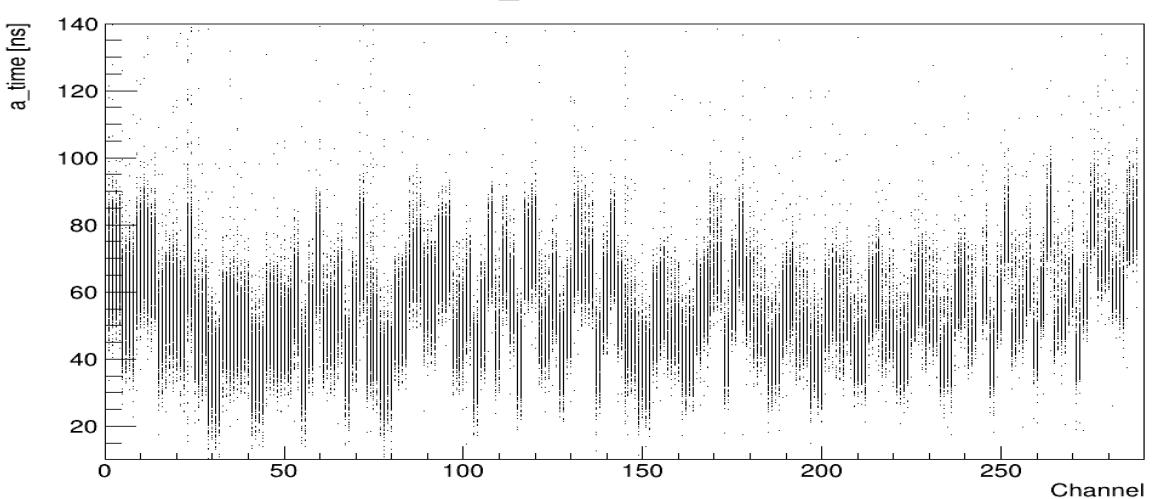
HCAL TDC timing distribution and summing

- Reason could be PMTs or cabling or electronics
- ~10 ns between two types of PMTs compensated with extra cables after the first summing module
- Early channels comes ~
 18 ns early in DAQ
 Patch Panel but not in
 FE Patch Panel (checked
 with pulser, PMT not
 included)



HCAL TDC timing distribution and summing

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HCAL Sum Trigger

