

# Summary of HCAL Status

## 07/13/2022

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- HCAL Hardware Status
- HCAL Software/data
- HCAL DAQ status

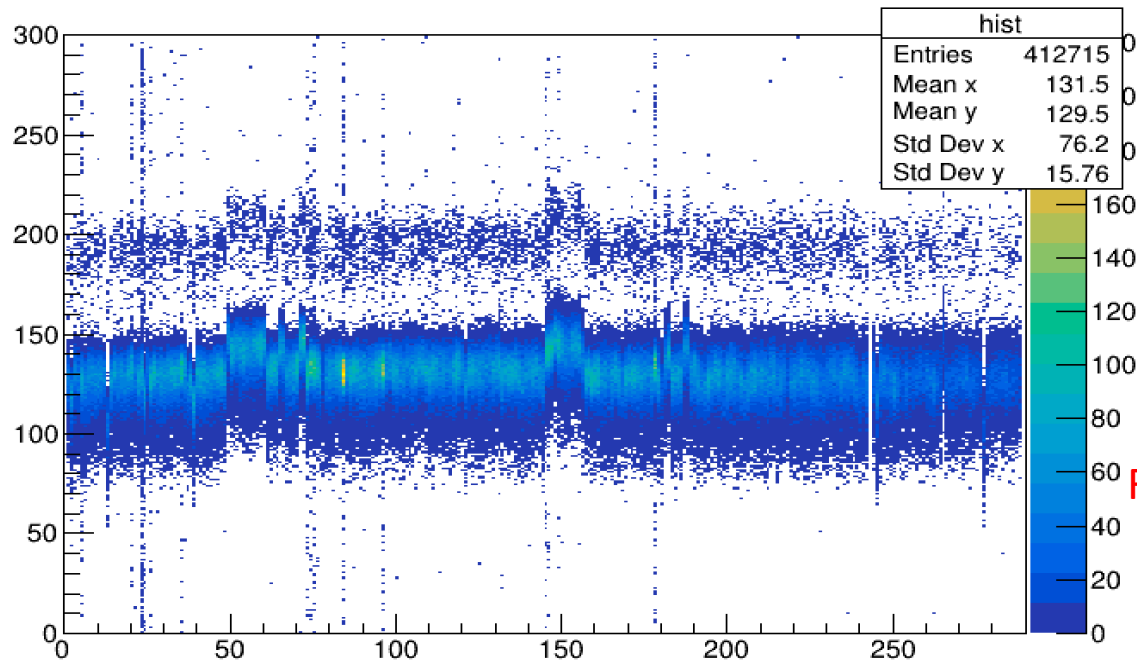
# HCAL Hardware Status

- One noisy PMT => Ch 243 (HV: 1781 V), higher cosmic trigger
- Issue with the NIM PS crate in RR3 (behind HCAL) => replace/backup?
- Mapping => suspicious 1 channel !!!
- Cabling of reference channel for cosmic (HCAL\_sum)

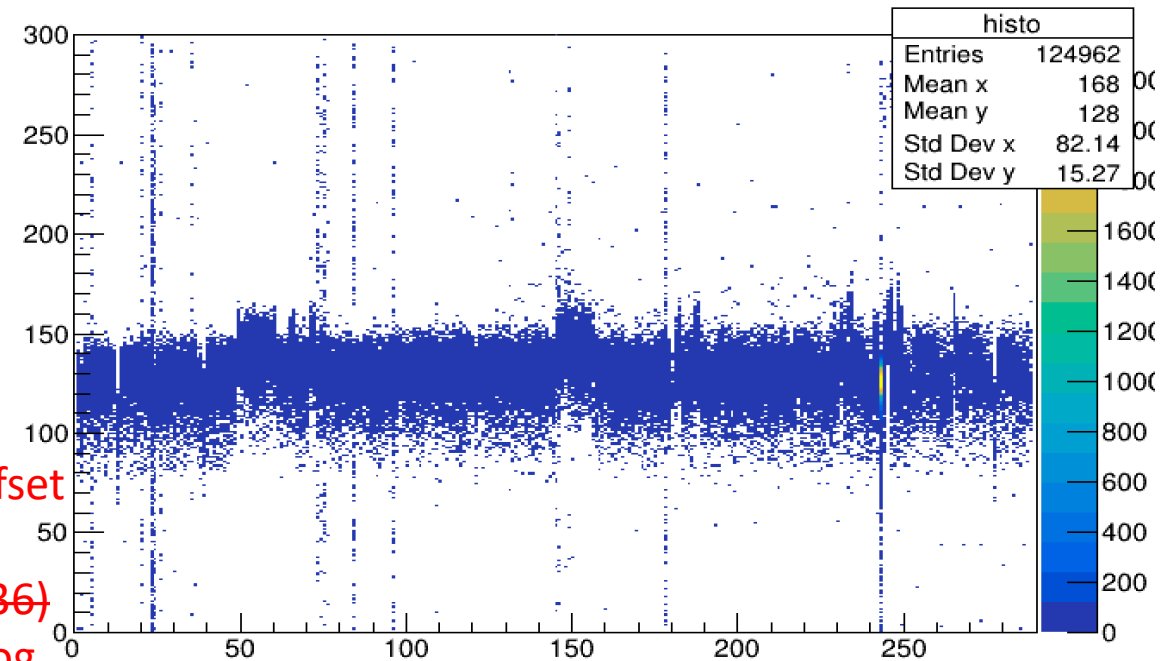
# HCAL Software/data

- HCAL replay maintained by Sebastian and ready
- Work update in HAHCAL logbook under Hall A elog
- Cosmic data (two clusters  $\sim 60$  ns apart) => due to rollover offset
- HCAL data (two clusters  $\sim 15$  ns apart) => decoding/electronics/detector?

sbs.hcal.tdc:sbs.hcal.tdcelemlD {sbs.hcal.tdc<10000}

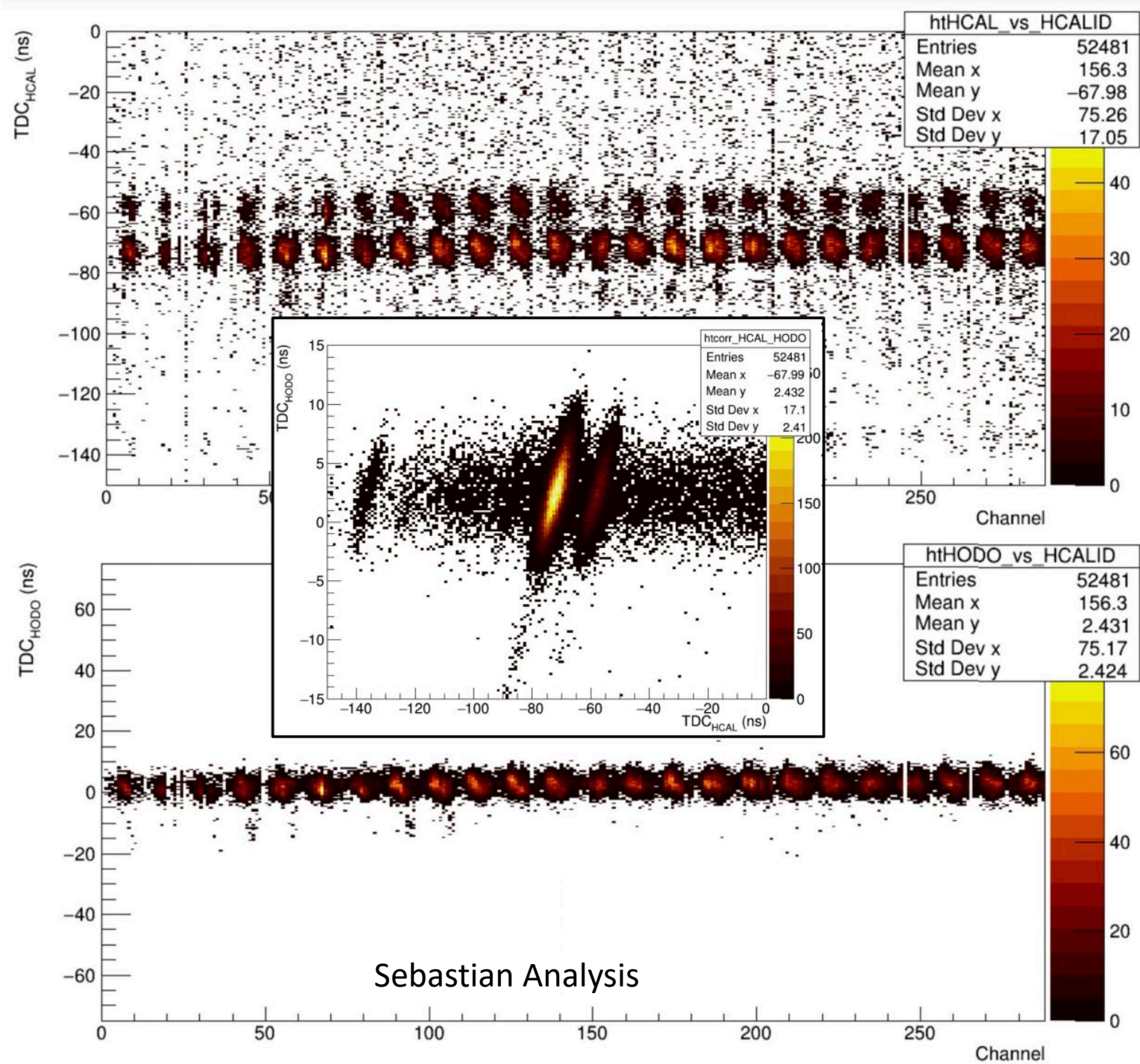


sbs.hcal.tdc:sbs.hcal.tdcelemlD {sbs.hcal.tdc<10000}



# HCAL data

- Two different bit system (trigger: 9 bits and data: 16 bits)
- $2^7 = 128$  times less resolution of trigger
- $128 * 0.1118 \text{ ns} = 14.31 \text{ ns}$  trigger time resolution



# DAQ Status

- All set within CODA as of previous experiment
- Frozen DAQ during cosmic run on 07/12 => remote interference reqd.
- Ongoing work for VTP => details from Alexandre (requested)