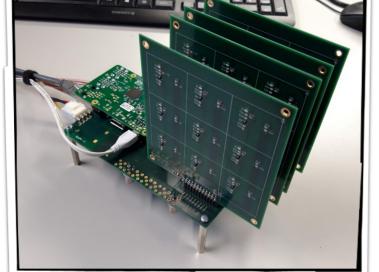
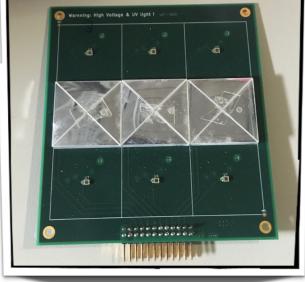
KLauS6: Status and Recent Developments

Main improvement: PLL driven TDC with 195 ps time binning Intrinsic resolution of < 100ps confirmed

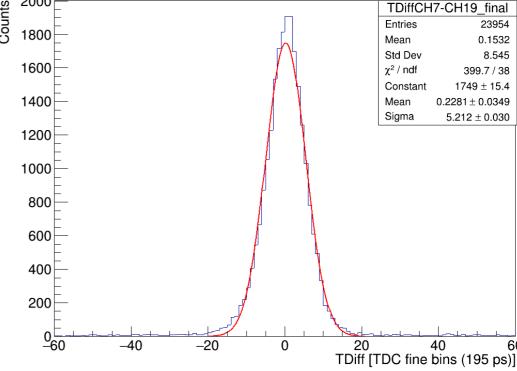
Test Beam Campaign in 10/2020 @ DESY Wire bonded chip & AHCAL tiles on SiPMs in beam Timing performance well below 1 ns achieved!







Test Beam Setup and Sensor Layer



Example Time Difference Spectrum

KLauS6: Status and Recent Developments

Next Steps:

KLauS6-BGA from new company just arrived. BGA is working! Qualification in progress

KLauS6b with improved features in TDC in production

HBU with KLauS5-BGA: DAQ development ongoing, plan to participate in future test beam operation

Next FP: work on KLauS for DUNE ... (if funded)