







## CMS MTD & PPS (ETROC) Testbeam at CERN SPS

Murtaza Safdari PS/SPS User Meeting Sep 12 2024

In partnership with ETROC Collaborators:









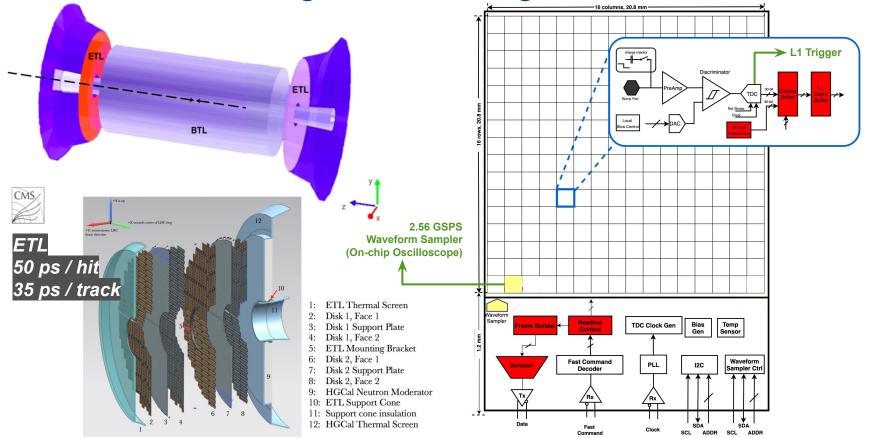


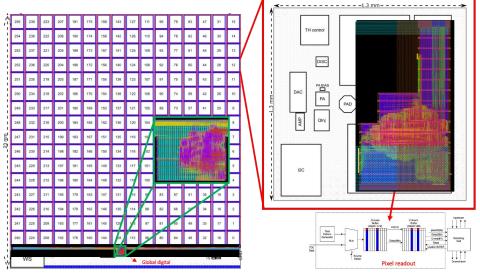




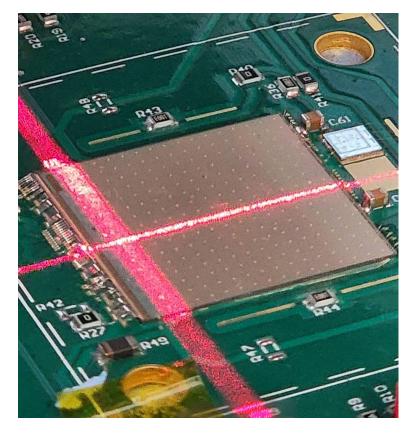


**CMS Minimum Ionizing Particle Timing Detector for the HL-LHC** 



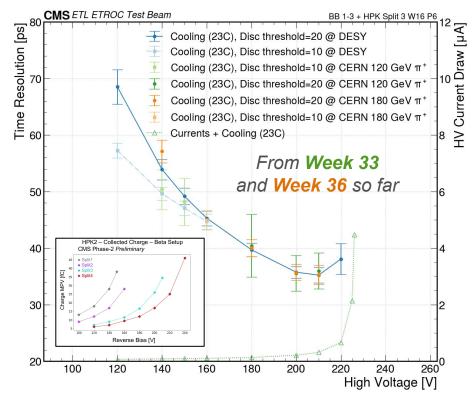


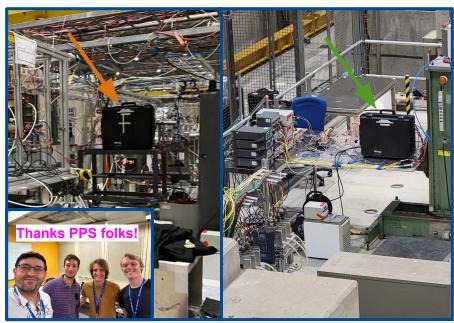






## ETROC2.01 Telescope at SPS Aug and Sep 2024 (Week 33 & 36)



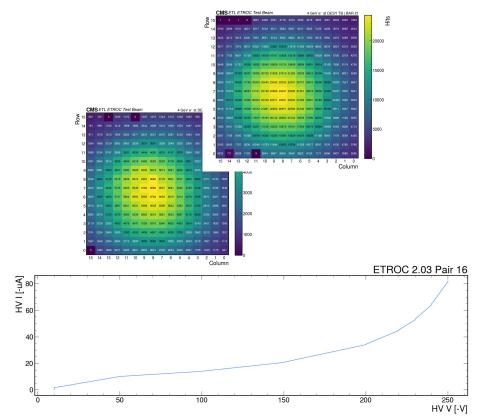


Successfully reproduced ~35ps res. with this board. Results from CERN 120-180 GeV  $\pi$  beams agree with those from DESY 4GeV e beam



## ETROC2.03 Chip at SPS Sep 2024 (Week 36)

First tests of new assemblies





3 board telescope mounted on AIDA tele.
PI Stage without temp control

