



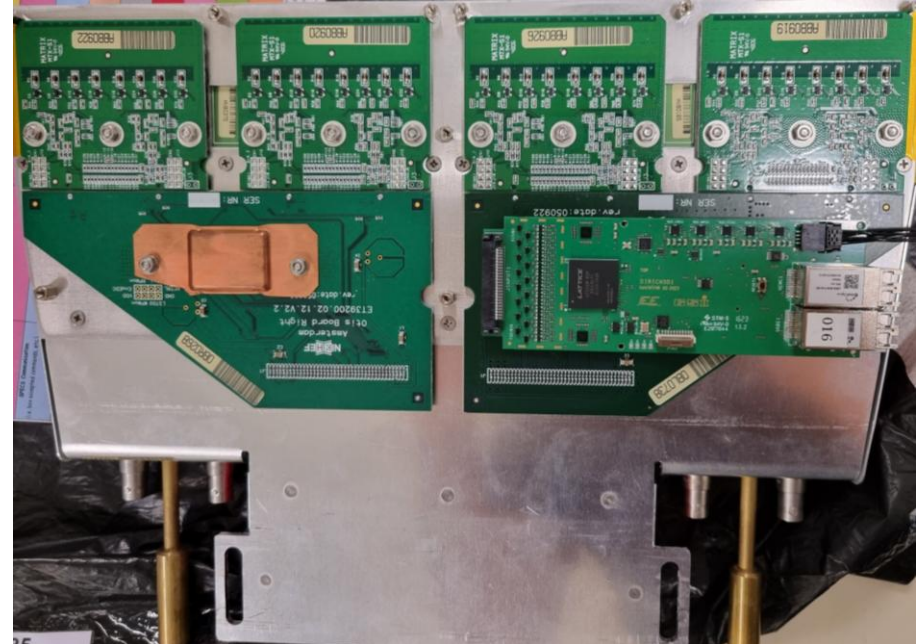
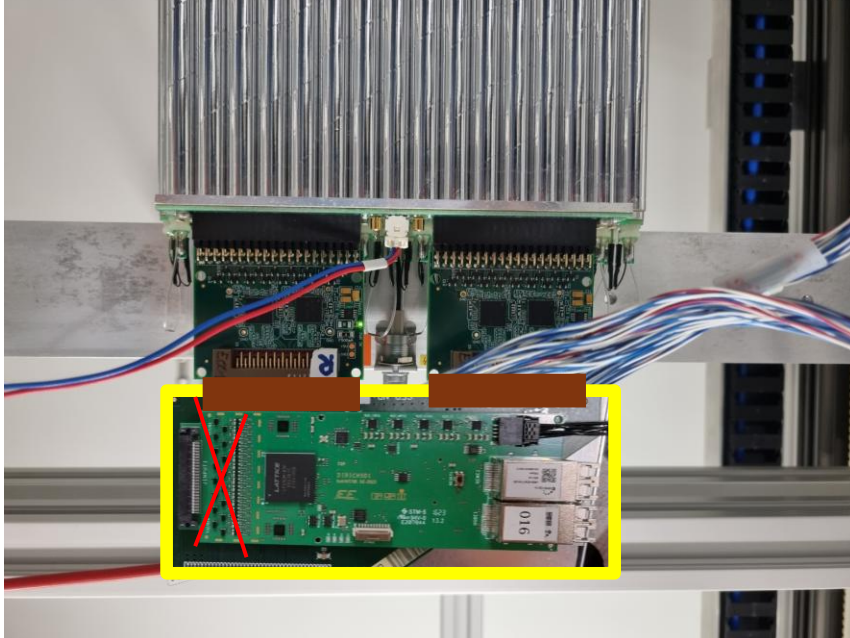
Straws and DOGMA users

07.05.2024

The setups

- PANDA Forward Tracker straws (Cracow)
 - PASTTREC + TRB5SC
 - Transition to DOGMA
 - Possible installation at CBM (integration with CRI)
- PANDA LHCb Outer Tracker straws at CBM (Tassos Belias)
 - ASDBLR + DIRICH + CRI
 - Possible transition to DOGMA
- CBM RICH (Christian Pauly)
 - DIRICH + CRI
 - Transition to DOGMA
- Beam Monitoring at CBM (Jerzy Pietraszko)
 - DOGMA + CRI
- PANDA straws at INSIGHT@ELSA (Christoph Schmidt)
 - PASTTREC + DOGMA + Ethernet
 - Initial setup with DOGMA, under evaluation
- Straws at P349 (Dieter Grzonka)
 - PASTTREC + TRB + Ethernet?
 - Transition to DOGMA under evaluation
- PASTTREC/ASDBLR integration with DOGMA
 - Already discriminated inputs
 - TDC platform
 - Alternative form factor
 - ASIC registers access
- DOGMA integration with CRI
 - Ethernet receiver on CRI?
 - CBMNet receiver on DOGMA?
 - Synchronization
 - Control and monitoring

PASTTREC/ASDBLR + DOGMA



Concept for DOGMA for straws:

- No discriminator, logic LVDS signals as inputs
- Two horizontal KEL connectors
- 32 channel TDC (possibly low resolution ~200ps)
- Shortest signal path
- No need for problematic Hitachi LVDS tapes
- No problem with proper grounding
- Cheap, light, long, optical fibers instead

DOGMA + CRI

