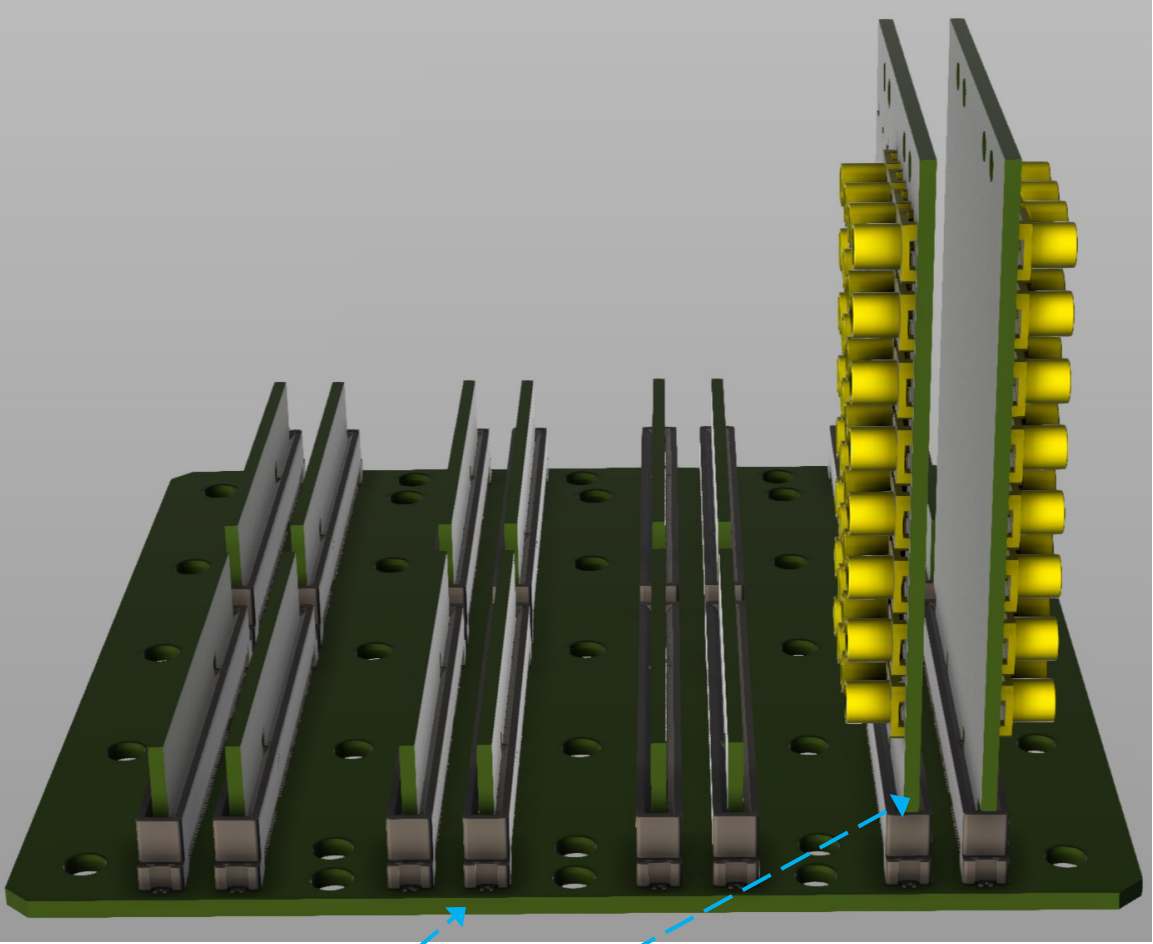


Activities since 07/17/2024 meeting & other news

- Improved HRPPD Q(MS)02b backplane design
 - Expert feedback received, implementation pending (see next slide)
- HRPPD QE measurements at BNL
 - Performed scans of all four “BNL” tiles & an absolute QE calibration -> see talk by Chandra
- HRPPD backplane crosstalk measurements
 - Network Analyzer equipment has been provided by Rohde & Schwarz
 - Measurements performed @ BNL -> see talks by Takao & AK
- EIC Detector Advisory Committee meeting next week
 - eRD110 FY24 report will essentially be a repetition of the talk given in Spring 2024
 - FY25 proposal: aging studies @ INFN, timing studies @ BNL + carry over of FY24 funds / activities
- Other stuff
 - Need to decide on B-field measurement schedule end of 2024
 - HRPPD HGCROC ASIC backplane work was effectively on hold for several months, restarting now
 - Preparation to a final round of EIC HRPPD re-design (PED continuation proposal) has kind of started

Re-designed HRPPD passive interface backplane



Expert feedback & TODO items

Q02b	Place Amphenol connectors symmetrically?	NO
Q02b	Follow Samtec's recommendation on the compression interposer pad design	TODO
M02b	Modify finger design (add 50 Ohm matching)	?
M02b	Increase fencing via density	NO
All	Use material with lower losses	NO
All	Add BOM files	TODO

Status: waiting for PED funding confirmation by the EIC Project

- 8-layer boards, 140-pin Amphenol Cool Slim Edge connectors
 - Q02b: backplane itself
 - M02b: MCX adapter cards in 1-2 selected slots
- 50 Ohm termination boards in all other slots