

LAPPD news since the last eRD110 meeting in April

- A virtual LAPPD Workshop #3 took place on April 20, 2023
- LAPPD #153 sent to Trieste (and will end up in Genova for a separate m.field test campaign)

- EIC-Incom PED contract paperwork is on its way to JLAB procurement
 - "Final" design by September 2023
 - First five tiles production: one by one between September 2023 and March 2024
 - Lab evaluation as of Fall 2023; potentially a short beam test at Fermilab in December / January
 - pfRICH prototype beam test in May-June 2024 with a 2x2 sensor set

- BNL / Incom / Techtra R&D work on HRPPD interfacing is ongoing in parallel
 - Full size 120mm anode base plate production by Techtra delayed by a couple of weeks
 - Readout PCB is ordered
 - Interconnect tests at Incom are being conducted

LAPPD Workshop #3

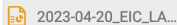
10:00 AM → 10:05 AM **Welcome and short communications**

Speaker: Silvia Dalla Torre (INFN, Trieste)



10:05 AM → 10:35 AM **Incom LAPPDs: status and plans**

Speaker: Alexey Lyashenko (Incom)



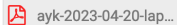
10:35 AM → 10:55 AM **Magnetic field testing of LAPPD and HRPPD at Argonne National Laboratory**

Speaker: Mark Popecki (Incom)



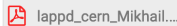
10:55 AM → 11:15 AM **HRPPDs for ePIC Cherenkov detectors**

Speaker: Alexander Kiselev (BNL)



11:15 AM → 11:35 AM **CERN October 2022 LAPPD beam test results**

Speaker: Mikhail Osipenko (INFN Genova)



11:35 AM → 11:55 AM **News from the ANNIE experiment: LAPPDs**

Speaker: Matthew Wetstein (Iowa State University)



11:55 AM → 12:15 PM **Update on LAPPD R&D at IJS Ljubljana**

Speaker: Samo Korpar (IJS)



Indico link: <https://indico.bnl.gov/event/18642/>

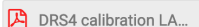
12:25 PM → 12:45 PM **LAPPD R&D for LHCb**

Speaker: Vincenzo Vagnoni (INFN Bologna)



12:45 PM → 1:00 PM **DRS4 calibration procedure**

Speaker: Vincenzo Vagnoni (INFN Bologna)



1:00 PM → 1:20 PM **Digitizer ASICs for LAPPDs by Nalu Scientific**

Speakers: Isar Mostafanezhad, Luca Macchiarulo (Nalu Scientific)

1:20 PM → 1:40 PM **LAPPD for the LHCb RICH Upgrade II - Activities in Edinburgh**

Speakers: Federica Oliva, Pratik Gheewalla (University of Edinburgh)



1:40 PM → 2:00 PM **An algorithm to reconstruct photon hits on the stripline LAPPD**

Speaker: Robert Foster



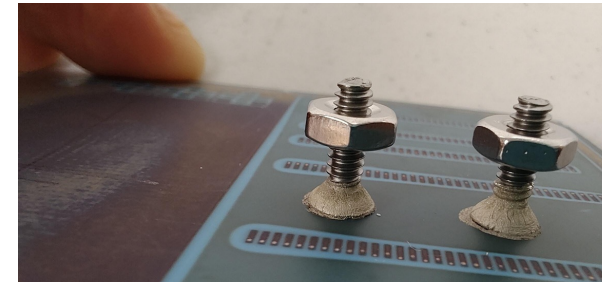
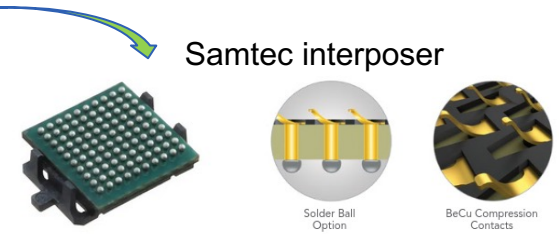
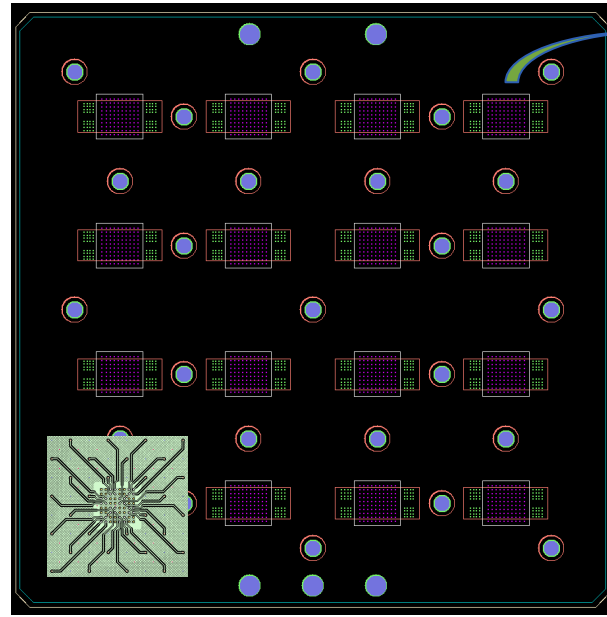
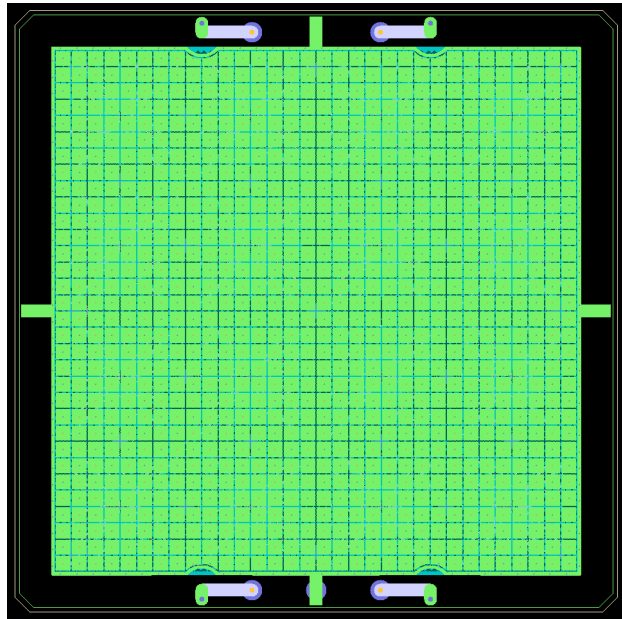
2:00 PM → 2:15 PM **Data analysis from an LAPPD test stand**

Speaker: Rory Edwards



2:15 PM → 2:35 PM **Discussion and AOB**

News from the HRPPD re-design front



Inner side of a 32x32 pad ceramic 120mm base plate

Outer side overlaid with a HGCR0C PCB template

Screws brazed onto a small 3" ceramic plate

- Several things yet need to be verified between now and September:
 - Optimize screw layout (as well as overall count & material)
 - Increase pitch on the outer side; order custom interposers
 - See how a fully integrated model looks like