Warsaw workshop 2025

Wolfgang Lohmann

Proposal for the agenda

Technology

There are at least the following larger items to be covered:

- Mechanical frame: summary of the current status, lessons from the test-beam, next steps.
  Potential speakers from Warsaw.

- Sensor plane design: current status, lessons from test-beam, plans for further R&D.
  Potential speakers: IFIC (structure, jigs, gluing), AGH and TAU (PCB and connectors).

- FLAXE: status and plans.
  Speaker from AGH.

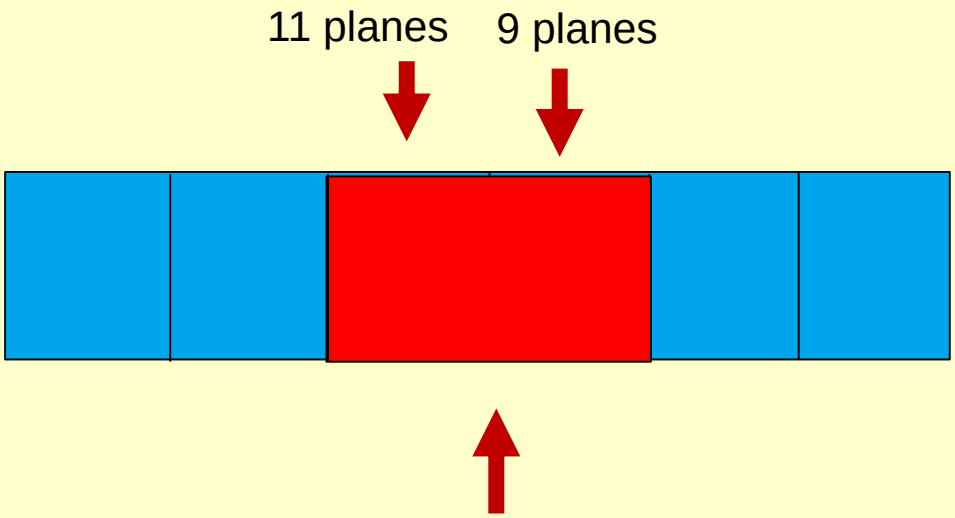
Technology

Conceptual items (depending from outcome of the LUXE Coll. meeting:

- Integration of the ECALP into LUXE
  potential speakers from AGH or TAU
- Monitoring and Slow Control
  potential speakers from AGH or ISS
- Time schedule and funding

Test-beam 2025

ECAL configuration



And more data at different energies

5 GeV

~10 M at two positions

Area scan with ~1 M per position

± 5 degrees, 2 positions, ~8 M

± 15 degrees, ~6 M

Calibration runs over the full area, ~ 40 M

15 X0 ~2 M

18 X0 ~ 2M

21 X0 ~ 2M

Test-beam 2025

First analysis topics:

Basics:

- Data quality, TLU numbers, time stamps, ….
- Telescope data (alignment, residuals, …..)
- Pedestals and noise

Sophisticated:

- Synchronisation telescope – ECAL
- Alignment telescope-ECAL

Test-beam 2025

First analysis tasks:

Calibration:

- Channel-by-channel calibration
- Comparison pre-processed and raw data

Simulation:

- Concept (different TB configurations)
- Plans and time schedule

General:

- Common tools
- Figure style standard
- Organisation, responsibilities

Longer term plans:

- Response homogeneity
- Shower parameter (position, profile)
- Shower tail studies, Moliere radius

Speakers to be proposed by Shan!

HELMHOLTZ ASSOCIATION

DESY