

2025 - KW06


Electron Detection System

Status Update since the Collaboration Meeting

- weekly working group meetings
- we decided on top-down approach for E320 data analysis
 - α_0
 - quads
 - dipole
 - E(y)
 - x-t-scans
 - low priority, seems very challenging
- creating "good run list" (Luke)
- extracting info from elog (Antonios)
- getting E320 simulation to run (Evan)

Electron Detection System

FACET-II Elog Data Extraction

 10/31/2024 23:59 loney.kalsi.parker.buschmann **FACET-II Halloween Shift Summary & Plan**

Status

- tuneup overnight with re-optimization from Zack's LEM to design:
 - emits L2 ~10x10, L3 ~50x30, S20 ~50x25 x 50
- delivery to E320 for LYSO e+ checkout until
- hotdog costumes employed in overnight tuning
- 13:00 --- S20 Standardized and recovering from Q4ER work.
- 14:00 : 14:30 -- Trouble shooting TCAV.

Electron Detection System

Open Questions

- How to continue with EDS@E320?
 - keep/remove setup there?
 - continue tests for LUXE-EDS?
 - create dedicated E320-EDS?
 - another EAJADE trip?
 - suggested by Maxence
- How to get to full LUXE-EDS?
 - does the EDS survive XFEL?
 - radiation environment comparison
 - can we measure a spectrum at LUXE?