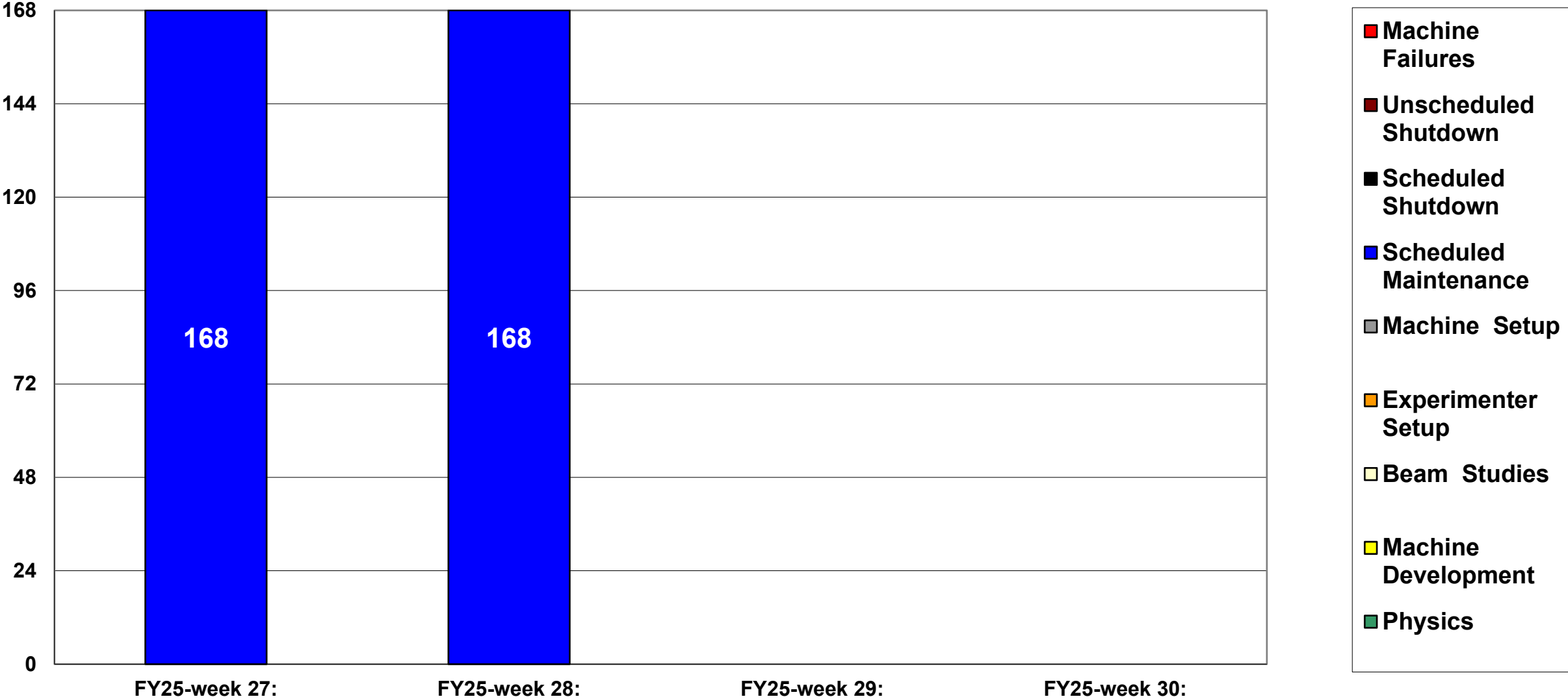
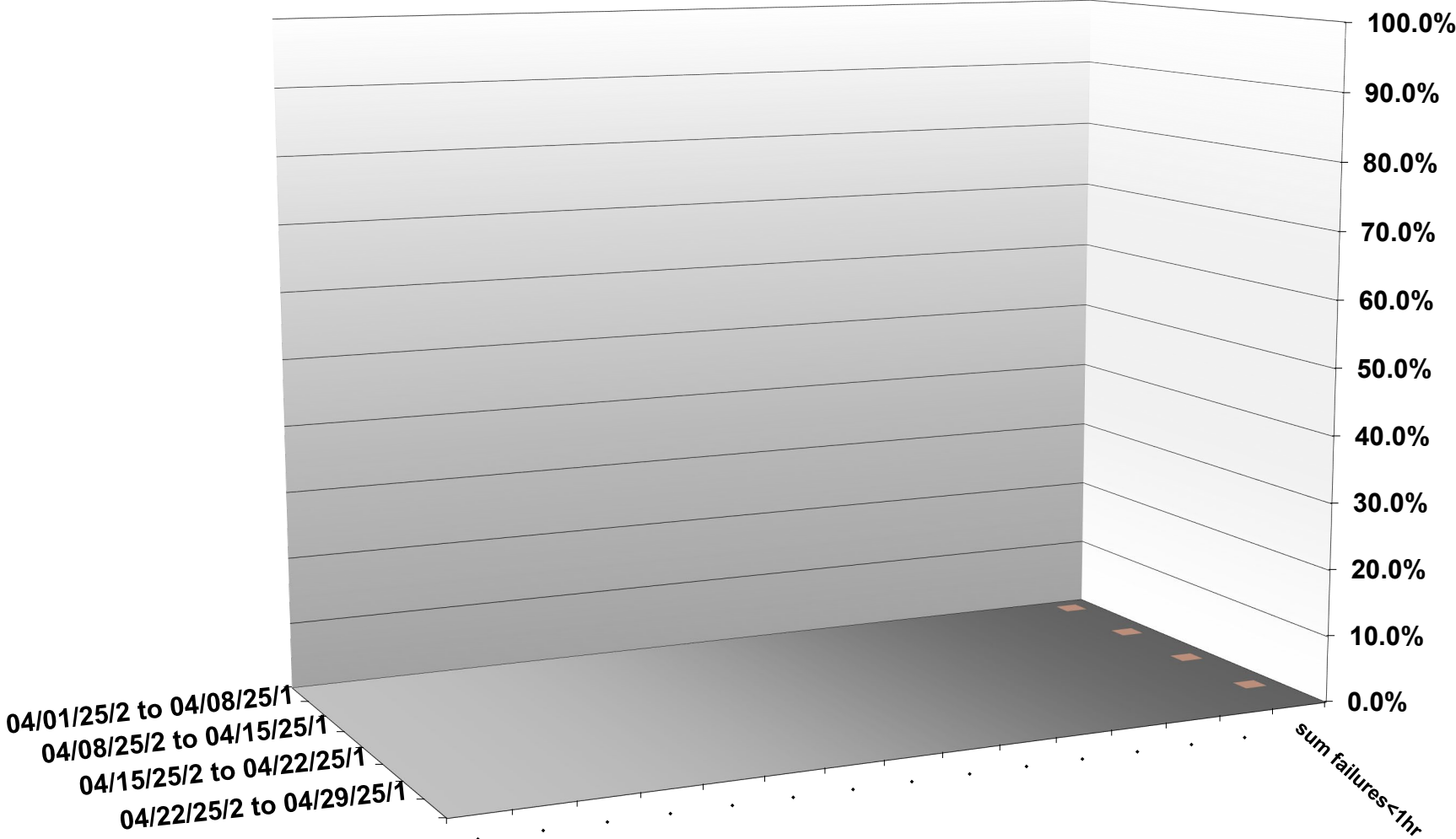


C-AD ACTIVITY April 2025



INTEGRATED **FAILURES** (GREATER THAN ONE HOUR) **BY SYSTEM** -- April 2025



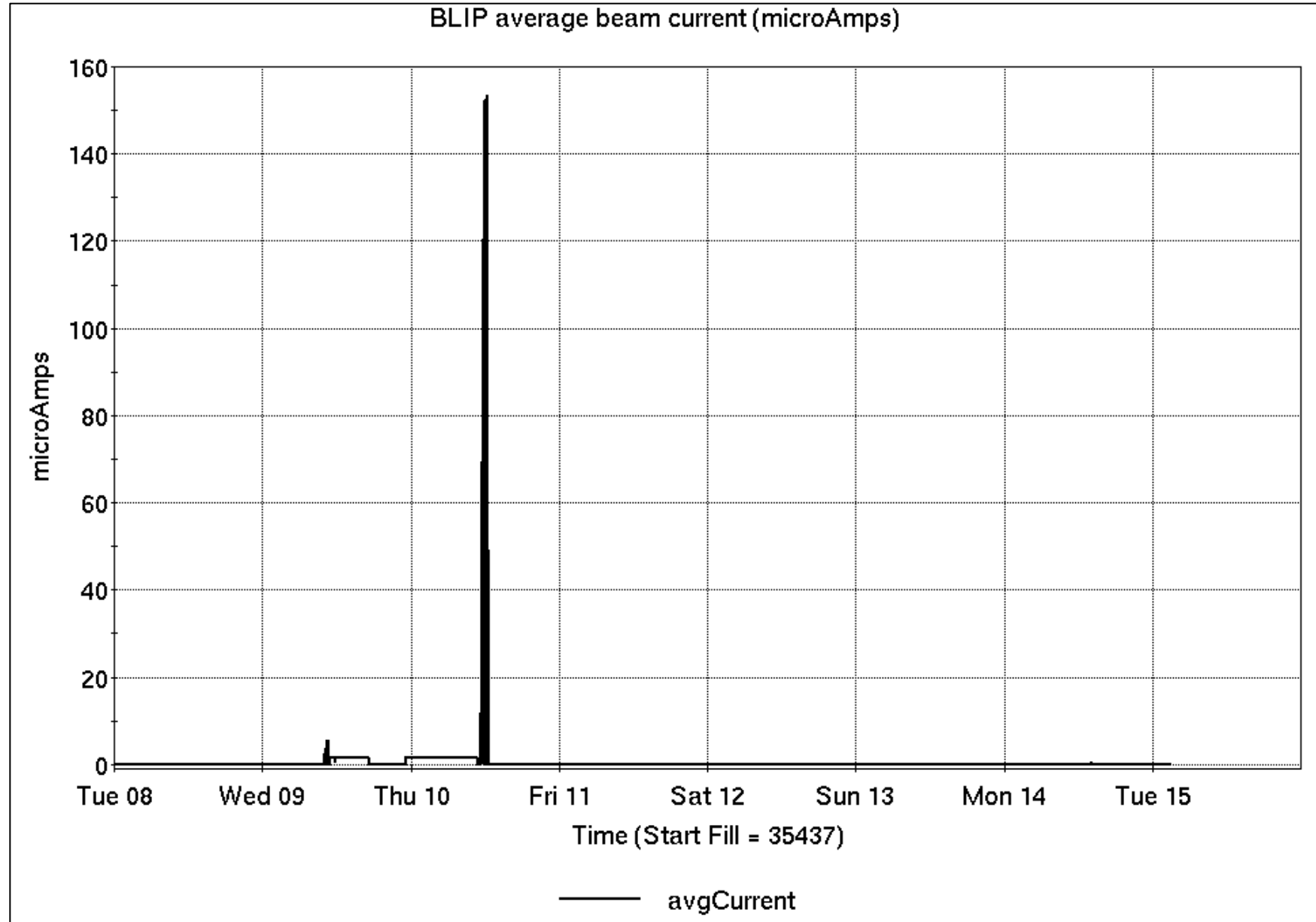
Operations for BLIP

4/8-15/2025:

117 MeV exposure was the only scheduled irradiation.

- 17.9 hr production
- 4.07 hr setup
- 6.13 hr failures

Availability: 78.2%



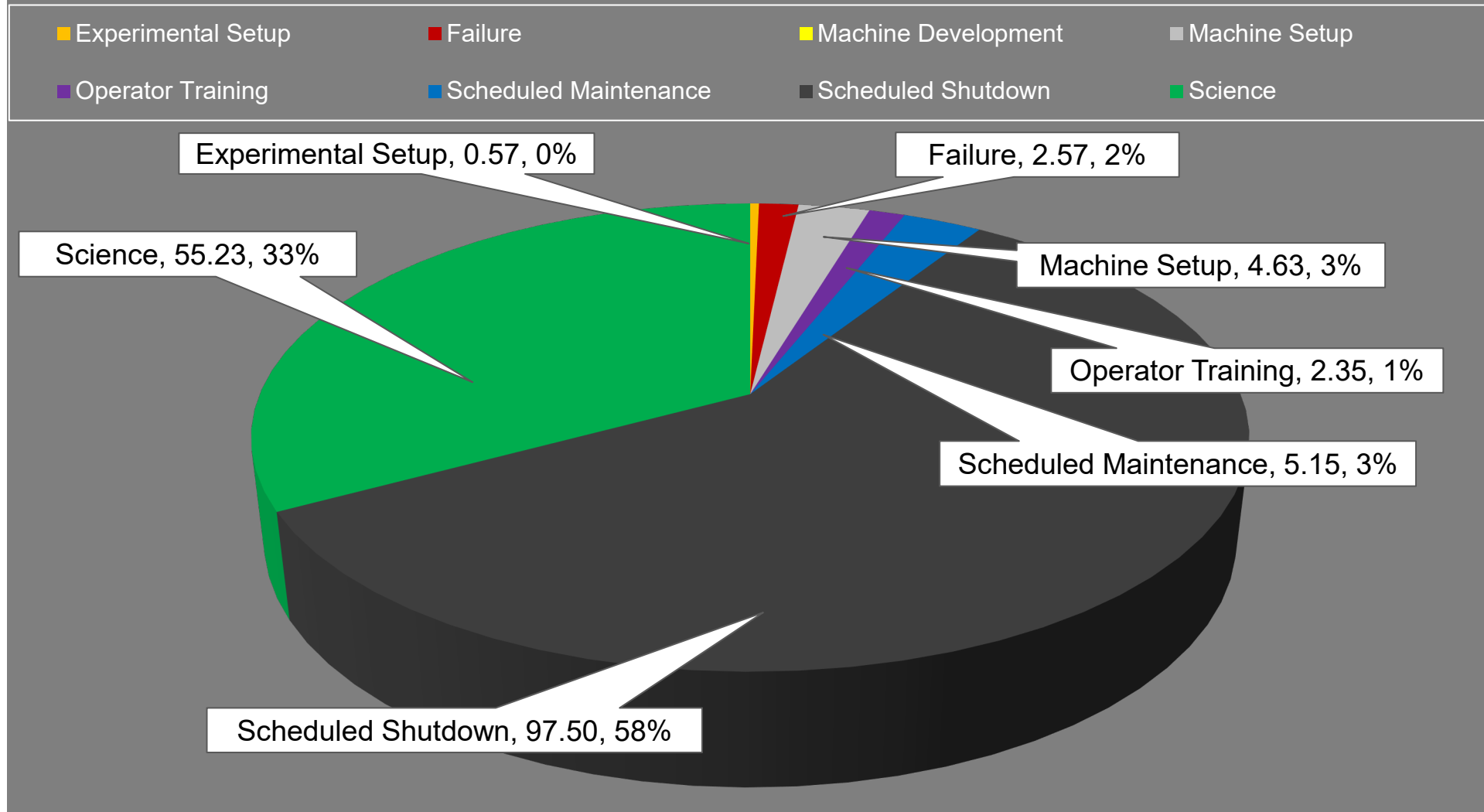
NSRL activity past week: 4/8-15/2025 (as of 0800)

NSRL running continues, with various users running

Tandem Au only, for single ion modes.

Running 25-A schedule since 3 February. Schedule posted, updates to 28 June for beams & users.

NSRL Hours



Notes from Operations

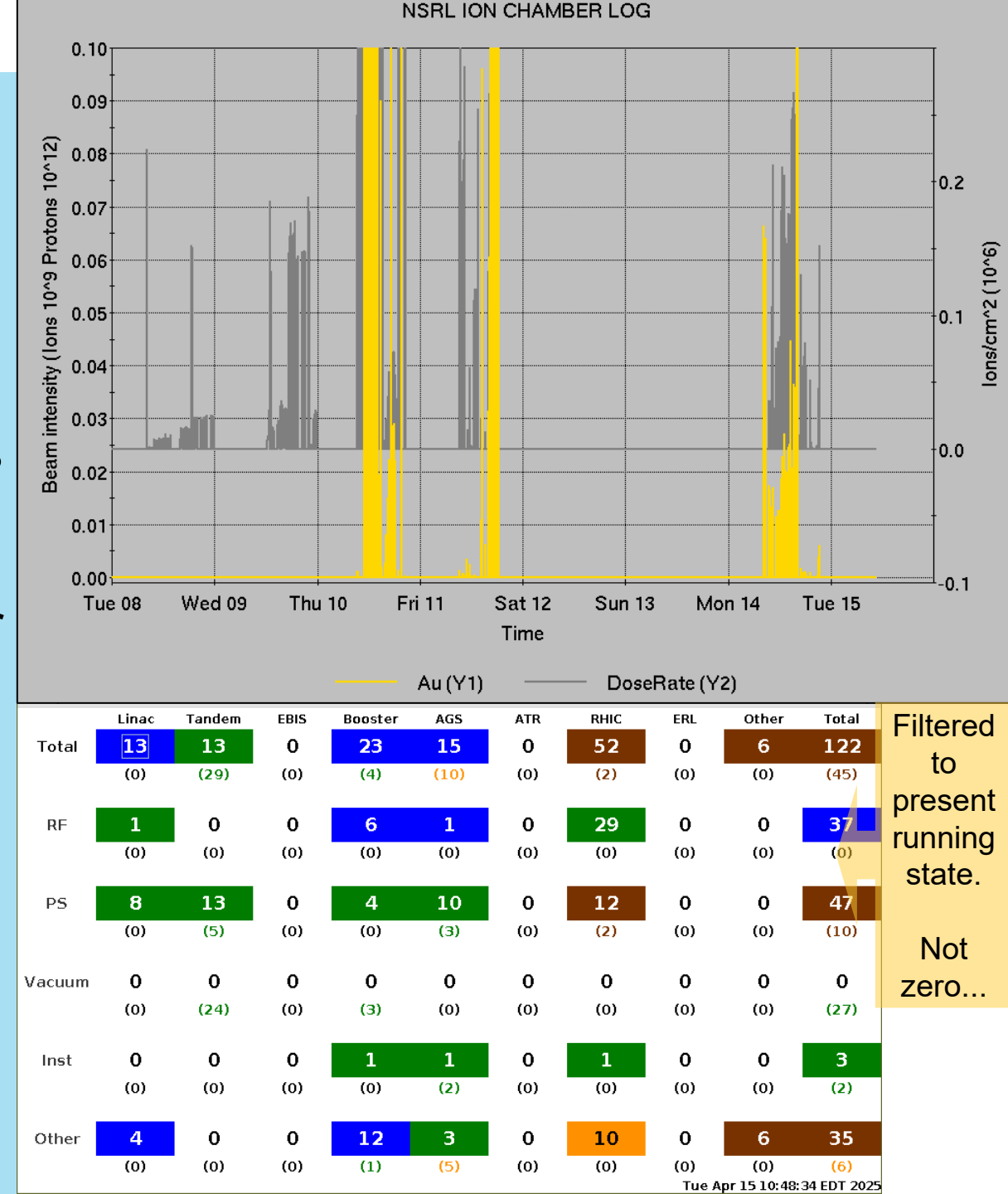
Notable failures (>1 hr)

- RHIC Blue main dipole system failure, ongoing
- AGS extraction bump failures, ongoing
- AGS polarimeter failure, ongoing issue with RF sweep signal
- Linac chiller trip, affecting various systems
- Power dip, affecting some AGS systems
- OPPIS source interlock, cooling resistivity
- LtB d2-5 PS failure, flow switch leak repair
- AGS e17 snake quad PS failure, missing connector repaired

Other notes

- Various Tandem accelerator room access, tuning, foil changes

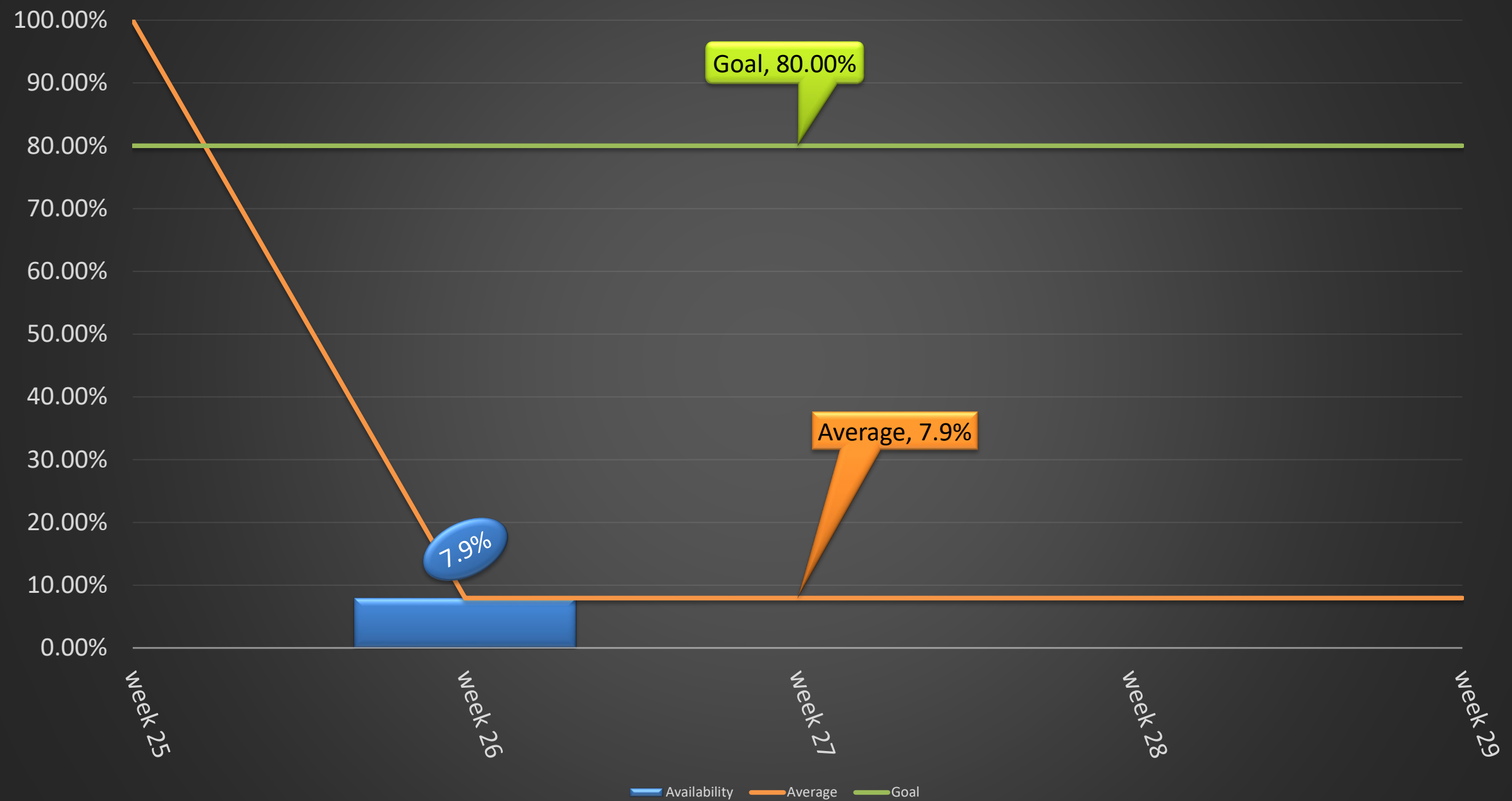
Over 37 hours injector pp setup, other studies



Reminder from Operations

- MCR beam operations continue
 - Operator/OC shifts continue for NSRL users, 2 shifts/5 days this week and next.
 - NSRL ions from Tandem, Linac protons as required (pending resumption of AGS Au)
 - GCR pending EBIS restart.
 - BLIP production 17-18 April; longer run starts Monday.
 - RHIC beam setup suspended pending warmup/repair
 - AtR beam pending extraction PS failures.
 - AGS Polarized proton setup, other studies continue 2 shifts/5 days pending Booster availability
 - Booster interruption Wed PM, beam restoration TBD
- *Note: MCR will not be occupied continuously.*
 - No OC on duty overnight. Operator overnight BLIP, intermittently. No MCR this weekend.
 - Contact CAS in off hours (x2024) for urgent issues when MCR is not staffed.
- Teams phone setup: awaiting ITD. Contact ITD help desk x5522, Maintenance Coordinator
- Changes? Time to update is now. Expect calls at all hours.
 - <http://directory.pbn.bnl.gov/>
 - CHECK AND EDIT YOUR OWN CONTACT INFO
 - https://www.cadops.bnl.gov/Operations/personnel/call_in_lists/
 - CHECK YOUR CALLIN LIST: expect contact off-hours
 - Alarm response instructions: Groups prompted for updates

Availability: RHIC Run-25



Availability, expected beam hours

$$\text{Availability} = \frac{\text{actual beam time}}{\text{scheduled beam time}} \equiv \frac{\text{Beam use time}}{\text{Calendar time} - \text{scheduled interruptions}}$$

RHIC

$$\text{Availability} = \frac{\text{Physics} + \text{Machine Development} + \text{Machine Setup} + \text{Experiment Setup} + \text{Accelerator Experiments}}{(\text{Physics} + \text{Machine Development} + \text{Machine Setup} + \text{Experiment Setup} + \text{Accelerator Experiments}) + \text{Failures}}$$

$$\text{DOE expected beam hours} = (\# \text{ of weeks} - 1 \text{ week overhead}) \times \left(\frac{160 \text{ available hours}}{1 \text{ week}} \right) \times 0.8$$