**HIE-ISOLDE:**

- 182Hg45p at 4 MeV/u delivered to Miniball from GPS.
- Liquid Lead target.
- Slow extraction setup and optimization of beam injection into Miniball.
- 22Ne6+ at 4.0 MeV/u delivered on Tuesday evening and night for calibration.
- 7GAP3 low level RF failure on Thursday soon after starting sending radioactive beam to users.
- 7GAP3 problem solved on Friday afternoon and beam for users until Monday at 6:00 AM (end of protons).
- IHS accelerating cavity trip. Restarted by users.
- Target change on GPS on Monday afternoon. Some issues with the air compressed booster pump during the target change. Bypass done and auxiliary system in place on Tuesday morning to continue with the target change.

**HRS:**

- Target irradiated for the winter physics (AcF to CRIS).
- MEDICIS target irradiated in parallel. Target retrieved for implantations.
- Separators and RFQ setup to CRIS.
HIE-ISOLDE

Blocking Faults by Root Cause

- **Raw** (includes faults in shadows and child faults)
- **Root Cause** (child faults assigned to parent systems, time in shadow removed)

### Availability
82.6%

### Blocking Faults
4

### Total Faults
4

### Fault Duration (overlap excluded)
29.2h

**Faults Timeline by System**

- **Injector Complex**
- **Radio Frequency HIE**
- **Radio Frequency REX**

- [6min 11s]
- [2h 15min]
- [1d 1h 30min]
- [1h 6min]

29/11/2022 Facilities operation meeting (FOM)
HRS

- **Availability:** 99.5%
- **Blocking Faults:** 6
- **Total Faults:** 6
- **Fault Duration (overlap excluded):** 0.8h

**Blocking Faults by Root Cause:***
- **Raw (Includes faults in shadows and child faults):**
  - Power Converters: 1
  - Injector Complex: 5
- **Root Cause (child faults assigned to parent systems, time in shadow removed):**
  - Power Converters: 1
  - Injector Complex: 5

**Faults Timeline by System:**
- **Injector Complex:**
  - BL1.RQ050 (12min 28s)
  - (7min 54s)
  - (6min 11s)
- **Power Converters:**
  - YHRS QP520 (4min 39s)