

# PSB Report

- All operational beams available
- 97.7% of availability over last 4 weeks
- Beams for upcoming LHC MD prepared
  - Van der Meer beam
  - LHC100ns beam
  - BCMS25ns beams of variable intensity for e-cloud studies
- **Finemet cavity** setting-up is progressing well
- **Phase noise reliability run** started in week 20 running fine
- **White Rabbit B-train reliability run** restarted for ISOLDE beams; firmware bug was identified (CO and RF working on solving it) and workaround was put in place
- **Second power amplifier for the TFB system** connected in the hor. plane for all rings (important for optics study MDs)

# MDs

- Dedicated MD on **PSB-to-PS transfer line optics** on Wednesday
- Setting up cycles for **Q4/Q3 and Q3/Q5 optics studies**
- Detailed studies of **PSB-to-PS YASP** (including PS first turn)
  - Repeated kick response measurements → polarity inversion of BTP.DHZ40 corrected
  - Some small inconsistencies found in BT line → optics being verified
  - Correct mapping of PSB bunch to PS bucket to be done this weekend
  - Shown to be in principle working
- For PSB ring optics measurements some improvements on HW and SW side of **BTMS** – thanks to Jeroen and Stephane!
  - Increased acquisition data granularity by factor of 10
  - Calibration procedure implemented, but needs follow-up from Jeroen