

PSB Beam Status

Fixed target beams	status	comments
ISOLDE	OK	Also staggered beam (STAGISO)
EAST1,2	OK	
TOF	OK	
AD	OK	
MTE	OK	600e10 p/ring with $E_h \sim 8.5 \text{ um}$ and $E_v \sim 5.1-5.8 \text{ um}$

LHC-type beams	status	Comments
LHC 25ns	OK	
LHC PROBE	OK	
LHC INDIV	OK	
BCMS 25ns	OK	

MD studies starting...

Consequences from ITS1

- FWS R1H and R4V successfully changed (non-standard - for PSB - mono-strand wire on R4V), but the issue with R3V of fluctuating center positions and beam sigmas still ongoing
- C02 R2 not working → currently no beam from R2!
 - HV issue at restart after ITS1 → 3 thyristors broke at input stage of the final amplifier, only 2 available in spare (for HW mitigations see next slides)
 - TOF set up for R3; approaching nominal intensity
 - LHC25_DB_3+3_PSB: LHC 25 extraction + recombination adjusted for injection of 3+3 bunches into the PS

PSB C02 – R2

SKKT 250 16 E



Usually three boxes with three thyristors are kept available as spares, but ... one of them was empty ...

Standard delivery time from Semikron is one week, we are trying to insist on urgency.

TE/EPC colleagues contacted to check if the component is available.

PSB C02 – R2 OPTIONS 1/2

Patch the spare HV power supply for the PSB C04; some work required since current is at the limit of the power supply capability and controls are different.



PSB C02 – R2 OPTIONS 2/2

Restart the Finemet cavity in Ring 4 and make it operational on main harmonic; patch the PSB C02 – R4 power supply on PSB C02 – R2.

The Finemet cavity has not been operated this year yet, work is required on LLRF side, A. Findlay is working on it.

