

Low energy beamlines

- Protons on GPS since Tuesday. PSB crew has performed many measurements with new BTY optics. SY-ABT (M. Fraser) was involved on the calculations and they have been measuring the different beam types which will be delivered to Isolde (ISOGPS and STAGISO) for the different focal settings. Measurements performed using the new movable SEMGRID target placed on the GPS front end and fix SEMIGRIDS in the BTY line.

We have had some issue due to inconsistency between the vacuum control system and the real status of the vacuum itself where it was assumed the SEMGRID target was pumped when it wasn't. The GPS Front End was pumped after which the signals from the SEMGRID were fine and measurements could take place. Thanks to all the work done with a long campaign of measurement we have verified BTY beam alignment vs GPS target.

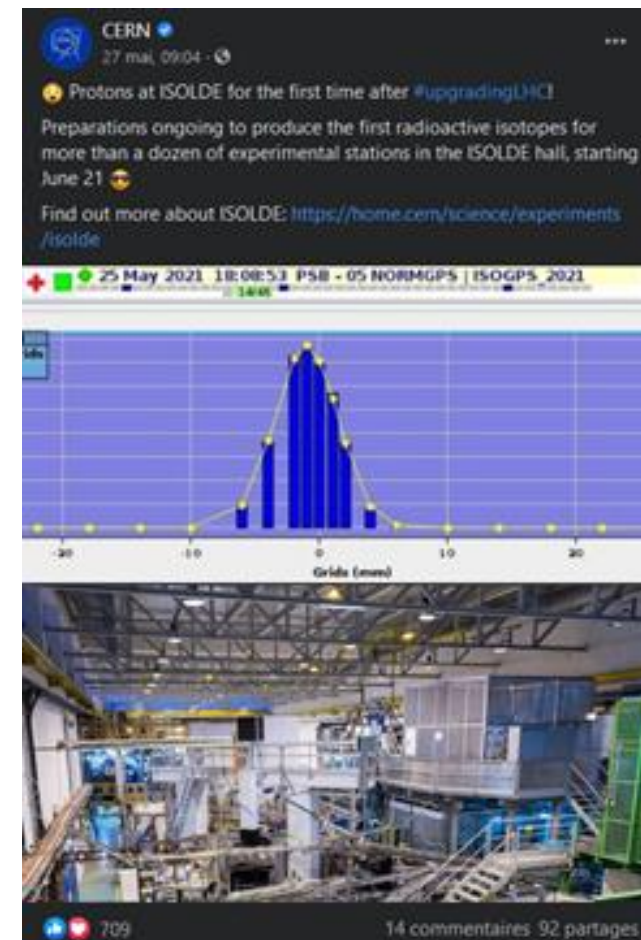
Many thanks to all the PSB section and supervisors!

The SEMGRID target is being moved onto to HRS Front End this morning to continue and finalize the SEMGRID tests for the upcoming proton run 2021.

- Isolde GPS fix display is actually still showing some faulty status after LS2 interlocks changes. Work ongoing to fix it (BE-CO and BE-OP SIS experts involved).

- Isolde HRS RFQ beam tuning performed trying to improve efficiency with higher mass. Very good results obtained.

- New tapestation detector installed by SY-STI and SY-BI.



- SY-EPC has intervened to fix a broken FGC power supply in the HEBT line XT02.
- A blocking problem with the count rate functionality of the SD installed at Hie-Isolde has been fixed by E.Bravin (SY-BI). Enrico spent significant of time on it. Big thanks to him!
- We have started cavities phasing. Different energy measurements performed.
- At REX last week a few small capacitors on one of the controller cards for the REX 7GAP3 RF amplifier burned at start up. C. Gagliardi immediately reacted and saved the amplifier (perhaps even more..). He has initiated a replacement campaign for these capacitors on the other amplifiers' boards as well.
- Unfortunately on Sunday at ~12h30 a faulty cryo interlock caused by a malfunctioning temperature sensor in Cryo Module 3 lead to a stop of the cryo cold box. Cryo piquet intervened immediately and restarted the cold box and reconnection to the cryo modules. A cryo study is on-going in order to determine the possible process optimizations and reduce such events. Many thanks to N. Guillotin and the cryo team for their fast intervention.

The temperature of all the SRF cavities in CM1, CM2 and CM4 raised above 10 K and lost their superconducting state. The SRF expert will assess the impact in the coming days.

