

PS/SPS Physics Coordination

M.Jäkel

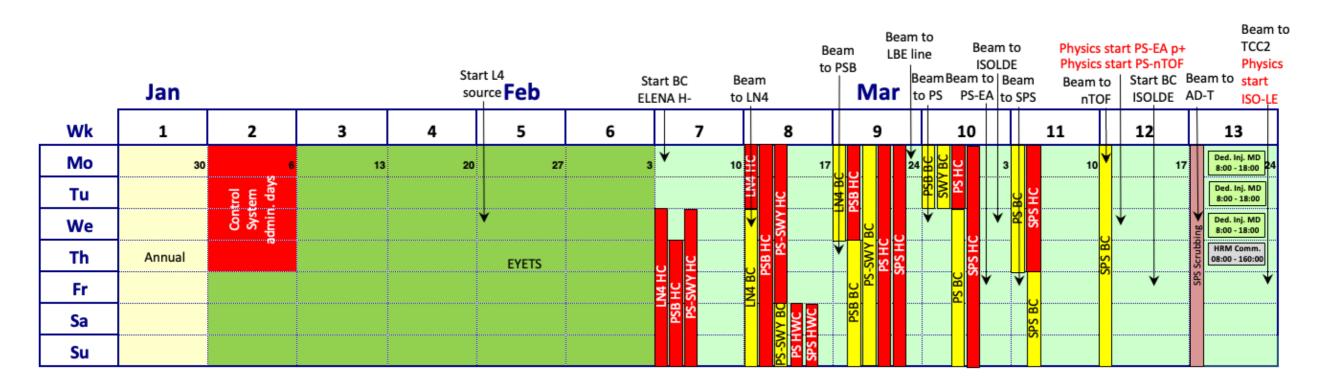
(Deputy Physics Coordinator)

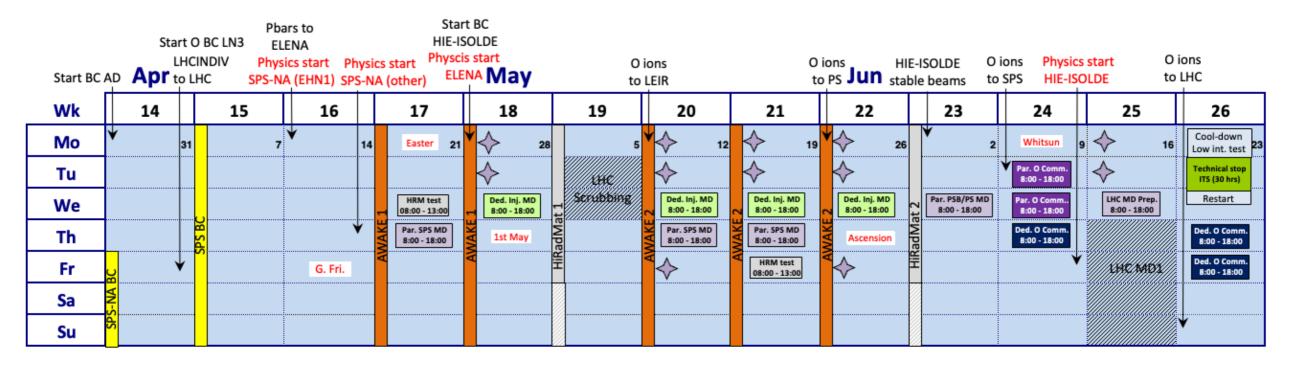


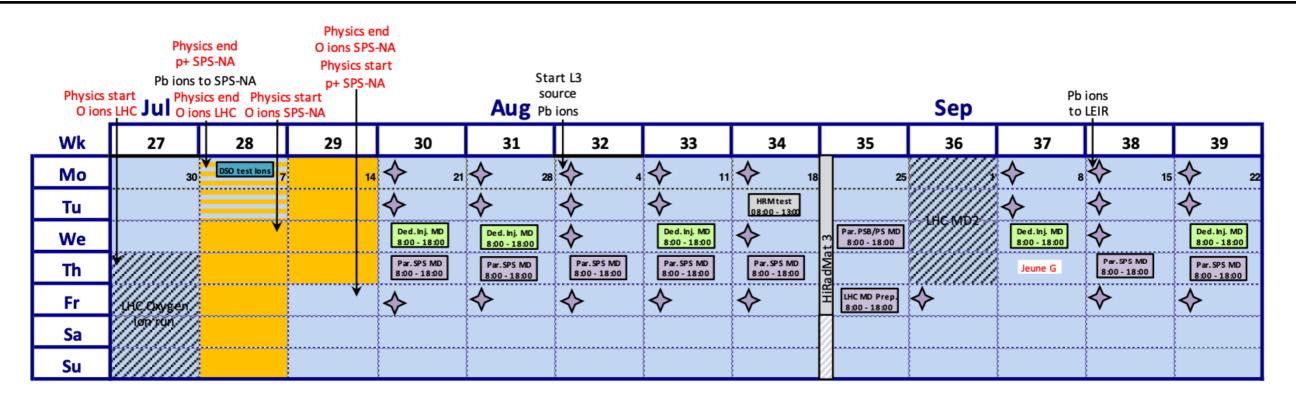
- Call for Beam Requests closed :
 - Beam request from GIF++ received. 3 x 2 weeks as in the last years
 - In agreement with DRD1 request, so most likely the usual parallel operation
 - 17 request for H4 in total, longest for 70 days for NA64e
 - Zones/times not allocated yet, but we have currently 2 weeks for CMS ECAL for beam delivery to PPE164. No request from NP04.
 - First draft expected "soon", H2/H4 is the first to be scheduled.
- Injector schedule for next year "finalised" (v0.9):
 - see next slides, to be approved tomorrow in the RB
 - SPS-NA EHN1 Physics Start = 14.April 2025
 - SPS-NA Proton run ends 24 November 2025
 - 9(+2) days of O ions run July
 - 2 weeks of Pb ion run at the end (including setup) / in parallel with LHC
 - End of 2025 run for all facilities: 8. Dez.2025, 06:00
- Injector schedule 2026 first drafts available :
 - Very short YETS, Injectors will start ≈ 4 weeks earlier in 2026
 - LHC will stop 29 June, SPS proton run ends 30 July 06h00
 - 4 weeks of LHC Pb run in June, parallel to SPS protons. Filling every ≈ 6h for 1h
 - Followed by 4 weeks of p and 4 weeks of Pb ion run dedicated, without LHC fillings
 - Final end: 30 August 06h00 -> LS3

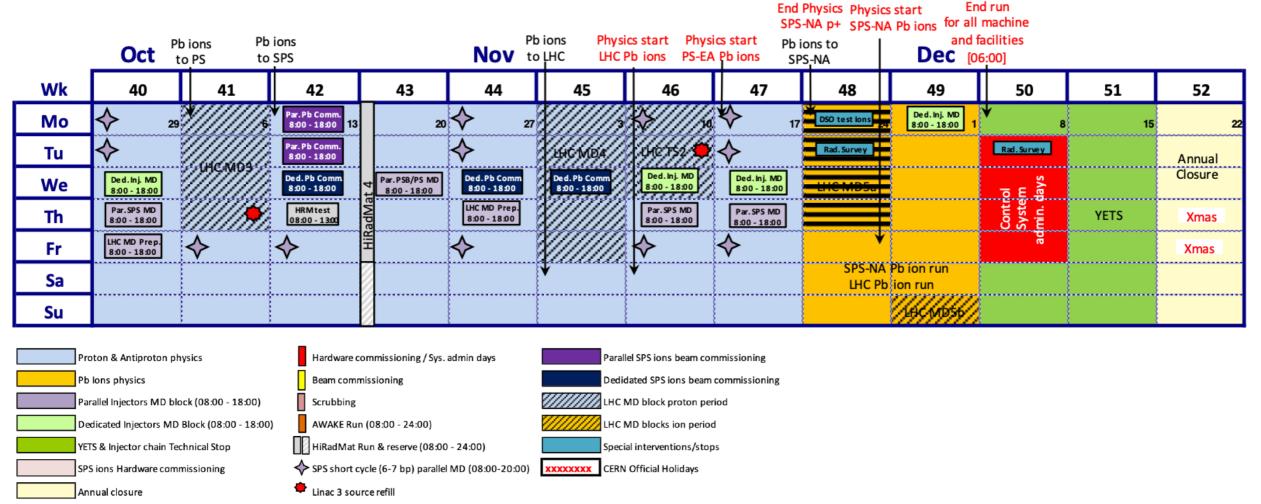


Injector Schedule Version 0.9, Rende Steerenberg









Operation throughout LS3 :

- GIF++ is requesting to be fully operational during the Long Shutdown 3 in standalone irradiation modus (within reasonable limits). Significant perturbations due to NA Cons expected.
- Approval still pending. Influence of extension of Run 3 under investigation for all requests.
- No changes for GIF++. Request is still valid and unchanged

FACILITY: GIF++ @ EHN1

GOALS & JUSTIFICATION:

- Continuation of ageing studies for the Muon gas detectors of the LHC experiments
 - this is essential in judging the performance and lifetime of the muon chambers in the HL-LHC phase
- Further advances in the development of environmentally friendly gas mixtures to be use in Muon gas detectors
- again an essential part of the aim to reduce the global environmental footprint of CERN and future facilities
- Further development of gas detectors for future experiments

SCOPE:

We need to run the facility in stand-alone mode, identically to LS2 or several YETS

SCHEDULING:

- The full duration of LS3 (within reasonable limits)
- If needed to stop, a longer stop is preferred to short stops, as we need ≈ 2 days for recovering (flushing chambers etc.)

SERVICES REQUIRED: Normal operation condition, including access & alarm systems. Support from transport and radiation protection. Gas supply, including handling of bottles.

EN/CV	Minimal rack cooling, compressed air and HVAC bunker	EN/AA	Access control system / Gas detection system / Fire detection system operational
EN/EL	Power to main GIF** switchboard and control room	EN/HE	Handling and transport of detector chambers opening floor tiles, handling gas bottles/banks
HSE/RP	Check of material leaving GIF++ (To be discussed) Periodic check of the sources Operation of RAMSES detectors inside bunker	BE/EA	Primary gas supply, scaffolding for annual maintenance
IT	stable network connection		

OTHER RELEVANT INFORMATION:

The GIF++ has been designed to run in standalone mode (operating with the Cs-Irradiator) during all times when no muon beam is available since 2014. We normally only stop during the Christmas shutdown and the annual maintenance.