AD/ELENA news

Agenda:
- News from the FOM
- MD time request
- Preparation of the TS
A bad week for physics

AD status:
- Repair of the BHZ-TRIM power supply the whole week:
  • Decided to try deceleration cycle without it on Friday afternoon to attempt physics restart
  • Thanks to dedication of the whole team and the magic of Davide, manage to restore physics Friday late evening
  • Still need to follow-up on the repair as we are running with others power supplies at the max limits.
- Problem on RF cavity module:
  • One amplifier exchanged on Monday in the shadow of the BHZ-TRIM repair
  • Another module faulty since Friday evening

AD target
- Water leak on the quadrupole exchanged during the YETS:
  • Fixed on site on Thursday

ELENA:
- Lost controls of ELENA + transfer lines vacuum valves for ½ day due to problem with controls rack
- Lost Hminus source power supply: damaged electronics
  • Repair started on Friday but need longer access
MD time requests

➢ Tomorrow:
   – Access in ELENA tomorrow morning for source repair
   – ½ hour intervention on AD mains to put the faulty power converter in safe mode
   – 1h intervention on stochastic cooling (to be confirmed)

➢ GBAR request shortening of the bunch length:
   – Could easily implement the bunch rotation as end of last year
     • But need agreement from all users + couple of shots
     • Could be done today or tomorrow during the MD
   – MD time to work on the 100 keV/c plateau in ELENA:
     • Could be more easily done with Hminus available

➢ Provisional planning:
   – 11/05 pm: study of 100 MeV/c plateau in AD
   – 18/05: reference measurement on stochastic cooling at 3.5 GeV/c plateau
     • AD in pause at top energy
Preparation of TS

- Technical stop in injectors on 17/05 8h→16h:
  - 12 hours cool-down pre-requisite for access in the PS:
    • AD beam should be stopped on Monday 16/05 at 20h at the latest
- Planned intervention in AD:
  - Intervention on BCCCA, partial warm-up and re-cooling:
    • No intensity measurement for 36 hours
    • ½ hour access Monday morning to launch partial warm up
  - Request of STI to exchange the AD target:
    • ~24 hours (to be discussed in more details during the week) cool-down before intervention
      - AD beam should be stopped Monday morning
    • Target reconditioning after the intervention:
      - 3 hours with lower intensity at the end of the TS

→ Are you still OK for the intervention?