AD and ELENA status
Highlights of last 2 weeks

- Physics production:
  - Operation with 2e13 extracted from PS
  - Deceleration efficiency 90% in AD and > 90% in ELENA

- First MD dedicated to access in AD and recovery:
  - Refill of BCCCA and investigation on magnetic field of one H corrector
  - Re-adjustment of orbit and e-cooler needed after the access

- Issues:
  - Faulty relay on Stochastic cooling to be exchanged
    - 4 hours beam stop
  - Several trip of the ELENA fast deflectors to GBAR
    - PERMIT NOK in the beam request server
Status of AD ELENA machines

- Stable deceleration efficiency in ELENA after identifying the source of oscillation in the AD-ELENA transfer line

LNI.BSGW.0060 removed on 3/05
Main source of variation of the delivered intensity is in the AD injection:
- Under investigation
- Insertion of BTV6068 triggering radiation alarm on the ELENA platform and killing 30% of the beam!
Issues

- Repair of the faulty SC relay:
  - Readjust of SC cooling
- Deceleration efficiency in AD improved by
  - working on H cooling at 3.5 and 2 GeV plateau:
  - Change alignment with e-cooler at 300 MeV
  - H bump in SC pick-up at 2 GeV to get rid of aperture limitation
Issues

- Problem with central timing configuration:
  - AD repetition rate badly affected when playing Hminus cycle in ELENA
  - From 115s to 136s
- Several restart of the CT needed to adjust configuration:
  - Will be done on Wednesday during the MD
Pending Issues

- Sudden loss of beam on 300-100 MeV ramp (on h=3):
  - Suspect bad behaviour of BPM with change of harmonics → radial loop killing the beam
  → BI colleagues still investigating

- Broken SC amplifier power supply to be exchanged (non blocking)

- Problem with BBQ excitation system (non blocking):
  - Need to keep it off till further diagnostics from RF/BI experts

- Several trips of DI quadrupole over the week-end
  - Will ask first line intervention in the shadow of this morning access
Program of the week

➢ PHYSICS:
  – No from PS from 10h30 to 12h today

➢ MD on 8\textsuperscript{th} of May:
  – 8h30 – 11h: optics measurement
  – 11h-13h: Stochastic cooling adjustment:
    • Pause in AD
  – 13h- 15h: investigation of FTA BCT signals
    • Intervention on faulty SC amplifier in parallel
  – Optics measurement in ELENA with Hminus