LHC injection and extraction MP status

Y. Dutheil & C Bracco (SY-ABT-BTP)

Injection

- RBAC protection
  - Identified issue where settings could be directly sent to FESA devices, bypassing LSA and RBAC setting. Tracked configuration issue following FESA3 upgrade, affect many front end !
  - ABT devices are being updated, needs manual change to each.
  - In general, can this be checked regularly by an automated system ?

- Checks to be completed for trains
  - TDIS
    - 2/6 modules could not setup yet due large angles measured, beyond the limits
    - Setup and validation scheduled today
  - MKI failure protection and hierarchy

- BLMs
  - Blindable not strictly needed for trains, but loss crosstalk from the TL may limit operation

Extraction

- Not critical for injection of trains
  - BTV interlocking threshold with intensity, will be done when intensity increases
  - BLM data missing in XPOC, much improved still occurs sporadically
  - Interlock on RF trims, ongoing by OP
  - XPOC thresholds (BLMs in particular)
  - BCT and BPMDD module in XPOC
  - Abort gap monitoring & cleaning
  - Direct BLM dump check
  - TDE monitoring

- To be completed for injection of trains
  - TCDQ (&TCSCP) setup and validation at injection (at flat-top later)
  - Interlock BPM
  - Check of clean extraction with maximum allowed closed orbit excursion in P6

Thank you