LHC Injectors Upgrade Workshop



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Operating the injector complex after LS2

Friday 15 February 2019 10:05 (35 minutes)

o Keywords:

- operational and controls aspects, scheduling, physics concepts, timing system, forum, beam instrumentation, performance monitoring, optimisation algorithms/machine learning
- o Points to be addressed and questions to be answered:
 - Discuss requirements and ideas to improve and facilitate operation after LS2
 - Consider operational and controls aspects
 - Discuss common scheduling strategies between injectors and LHC, including MDs to achieve LIU parameters.
 - · Define strategies for setting-up.
 - Incorporation of physics concepts into the control system: where do we stand and what remains to be done?
 - Address settings management, improved LSA-tools interface, optics integration, \cdots
 - Short and long-term improvements of the timing system (cycle and sequence management)
 - Address the establishment of a common body/forum to align concepts and strategies among the injectors.
 - Address the commissioning of beam instrumentation (wire scanners, ALPS, BGI, ···) including potential
 additional manpower requirements
 - · Discuss a common strategy across machines for follow-up and performance tracking
 - required tools, potential additional developments
 - How can operation benefit from optimisation algorithms and machine learning tools?

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Session Classification: Session 3: LIU hardware and beam commissioning