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Performance and reliability with ions from Linac3 to PS

Wednesday 13 February 2019 16:20 (30 minutes)

- Keywords: Ions across chain, performance and reproducibility, bottlenecks
- Questions to be answered:
    - What are the expected improvements in Linac3 (source, autopilot, new LLRF)?
    - What are the key ingredients for the improvement of LEIR performance and reliability achieved in 2018?
    - Is the impact of new diagnostics tools visible (new injection line BPMs, new orbit measurement system in LEIR, energy matching at injection in LEIR) and what it the potential?
    - Which margins are needed to reliably deliver or exceed LIU beam parameters?
    - Experience in Linac3/LEIR/PS from the LHC ion run, any bottlenecks found in PS with nominal (4 bunches with bunch splitting, 100 ns) and alternative (3 bunches, 75 ns)?
    - Which key simulations with ions must be performed during LS2?

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Session Classification: Session 1: LIU beam performance