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PS intensity reach and longitudinal parameters after LIU

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- Keywords: Longitudinal instabilities, past and future RF improvements, beam quality, bunch rotation
- Questions to be answered:
 - What is the parameter reach in terms of intensity/longitudinal emittance? What was achieved in 2018 and what is expected from simulations with the further LS2 RF improvements?
 - What is the contribution of each of the upgrades (coupled-bunch, 1-turn delay, multi-harmonic feedbacks)?
 - Which impedance sources mainly excite the observed instabilities?
 - Are there any new ideas to further improve the longitudinal beam quality, e.g. bunch shape after rotation, to better suit the SPS?
 - What are the observed and expected bunch-by-bunch parameter variations (2018 and post-LIU)?

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Session Classification: Session 1: LIU beam performance