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## Transverse beam quality and stability in the SPS (protons and ions)

*Thursday 14 February 2019 08:30 (30 minutes)*

- Keywords: SPS transverse stability, electron cloud, emittance growth, optics
- Questions to be answered:
  - What has been learned from acceleration LIU-like intensity in the SPS, in particular with short bunch trains?
  - What are the operational challenges with large tune shifts?
  - Which are pros and cons of the possible optics Q20 versus 22 versus 26 (for protons and ions)?
  - What do we know about transverse stability for high intensity beams?
  - What is the transverse emittance growth as a function of bunch intensity (also for ions)?
  - How complete is the transverse impedance model?
  - Where do we stand with the removal of momentum bottlenecks?
  - Can we rely on scrubbing for post-LIU operation? To which extent?
  - What is the experience with ions in 2018?

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**Session Classification:** Session 1: LIU beam performance