



## LHC Injectors Upgrade

Contribution ID: 8

Type: **not specified**

### Beam parameter requirements from HL-LHC

*Wednesday 13 February 2019 15:50 (30 minutes)*

- Keywords: Beam performance target, Protons and Ions
- Questions to be answered:
  - What are the baseline beam parameters and the most interesting filling scheme for HL?
  - What are the assumptions, do we need to review any of the assumptions based on 2018 experience or gained knowledge on some other items?
  - Specs on bunch-by-bunch variations within trains?
  - What is the sensitivity of lumi target/LHC availability to beam parameters? What is the balance between pushing beam intensity/quality in injectors and time lost during filling?
  - Impact on needs from injectors in case not all HL-LHC upgrades can be implemented?
  - Can HL-LHC compensate for a lack in intensity from injectors?

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