



Session 2 and Session 3 Joint Discussion

F. Asvesta, C. Hernalsteens, D. Mirarchi, H. Timko

11th December 2024

Topics

- **BCMS or standard or even hybrid for HL-LHC?**
 - Apart from the baseline standard scheme, what do we consider for HL-LHC operation?
 - What are the implications for losses, e-cloud, and operational performance?
- **Filling schemes for 2025**
 - p beams: can we converge on a few options?
 - Pb beams: any option to improve very long Pb filling?
- **LHC intensity limitations:**
 - Do we have enough information to remove $1.6e11$ ppb limitations in LHC? If yes, what's the next target and strategy to achieve it?
- **LHC optics design of 2025:**
 - Following lessons learnt in 2024, can we aim at a vertical dispersion free IR7?
- **LHC injection and start-of-ramp losses for protons and ions**
 - What are the bottlenecks?
 - What is our strategy?
- **Injectors:**
 - p beams: Do we have any intensity limitations and are we ready for the demanding new users?
 - Pb beams: Which are the remaining bottlenecks for ions and how we can further improve?



home.cern