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Performance of the injectors with ions after LS1 (25' + 15')

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Abstract:

We review the performance of the ion injector chain at the light of the improvements which will take place during LS1, and we derive the expected luminosity gain for Pb-Pb and p-Pb collisions in the LHC. We suggest a baseline plan of upgrades that will allow the requirements of the ALICE experiment after LS2 to be reached. An alternative plan is also presented. Finally, we examine the possibility for different ions species for which some of the other experiments have expressed an interest. The main outcomes of the presentation 'Work effort in the injector complex (including the Linac4 connection)' will be reminding with emphasis on their consequences on the ion operation.

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Session Classification: Session 5 - IONS