

Electron Clouds in the SPS: progress in the analysis of cures/mitigations measures and potential schedule of implementation

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After a brief review of the studies (simulations and measurements) made so far, a set of priorities for new studies will be presented and justified. These proposals will include all studies related to coating techniques, clearing electrodes, active feedbacks, together with their related instrumentation.

The feasibility, state-of-the-art, hard limits and opened questions, required infrastructures, schedule implications, phasing feasibility of the proposed mitigation solutions will be considered in the frame of only the upgrade of the SPS (i.e. without removing the beampipes from the magnets) and in the frame of combining the SPS upgrade with its required long-term consolidation (exchange of the magnet beampipes as an alternative). A tentative schedule of milestones in the decision making will be presented and discussed.

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