

## **E-cloud effects in the proposed CERN PS2 synchrotron**

*Sunday, October 10, 2010 3:30 PM (30 minutes)*

One of the options considered for a future upgrade of the LHC injection complex entails the replacement of PS with PS2, a larger circumference and higher-energy synchrotron. Electron cloud has been identified as a potential limitation to the machine performance. We review studies of e-cloud build-up and present recent results of simulations of short-term e-cloud effects on the single-bunch dynamics in the smooth-lattice, quasi-static approximation, as implemented in the code Warp.

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**Session Classification:** Poster Session

**Track Classification:** Poster