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Residual Ion Dynamics in Electron Storage Rings

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Ions produced by ionization of the residual gas in electron storage rings can significantly degrade the performance of a machine and produce various beam instabilities. To cure more effectively these problems it is important to understand the ion dynamics in the accelerator. The ions undergo the effect of the electron beam crossing and go through strong transverse oscillations and a longitudinal drift. In this talk a model of the ion motion will be presented, simulation results including the beam ion interaction and ion clearing means will be explained in ThomX case.

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