

Simulations using VORPAL on the effect of imperfections and nonuniformities in TE wave propagation through electron clouds.

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The simulation code VORPAL has been used as a tool to study characteristics of TE wave transmission in the presence of electron clouds for CEsrTA. We look at how the electron cloud induced phase shift is influenced by (1) reflections of the wave, caused by possible protrusions in the beam pipe and (2) effect of nonuniformities of the cloud density distribution in the transverse plane.

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