

Status of the MESA project

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Collaboration

Abstract content

The Mainz Energy-recovering Superconducting Accelerator (MESA) is a high intensity recirculating linear accelerator in the hundred MeV Range. Beam energy recovery at currents of 1mA or even more enables high luminosities with windowless gas targets. Since each beam particle passes the target only once stationary conditions are achieved, yielding optimum background conditions. Experiments cover, for instance, precision measurements of ground state properties, and searches for dark particles. The talk addresses the layout of the upcoming facility and concentrates on the challenges in accelerator physics.

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