

Preliminary Study of the HIE-ISOLDE Beam Profile Monitor

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In the context of the HIE-ISOLDE upgrade of the post-accelerator, a beam profile monitor is foreseen as an instrumentation device for the superconducting LINAC and beam transfer lines. It consists of a slit scanner and a redesigned Faraday cup. The effect of the different slit sizes on the current monitor has been studied in order to optimize the beam profile results. Numerical simulations have been made to study the performance of the profile monitor at different beam parameters. Electrostatic Fields and Particle Tracking results are presented.

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