

SLRI Beam Test Facility Development Project

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The SLRI Beam Test Facility (SLRI BTF), currently in a design phase, is a part of the future upgrades of the SLRI accelerator complex. Upon completion, SLRI BTF will be able to produce electron test beams with the number of electrons ranging from a few tens to several thousands of electrons per bunch. A simple setup in the initial stage will be implemented without any modifications to the existing high energy beam transport line (HBT), while additional elements are required for the short-term setup. For a permanent station, a newly dedicated transfer line equipped with an energy selector will be constructed to extract the electron beam from the HBT beam line. This project aims to provide a defined number of electrons in a required range of electron energy for calibration and testing of high energy detectors as well as other beam diagnostic instrumentations.

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