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FERMI Machine Protection System

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At FERMI, beam losses and radiation doses are real-time monitored by an active Machine Protection System (MPS) to protect the facility's permanent undulator magnets from radiation-induced demagnetization. We have implemented dedicated Beam Loss Monitors with high spatial resolution; these rely on the detection of Cherenkov light in quartz fibers using multi-pixel photon counters. Furthermore, conventional Ionization Chambers have been installed equipped with a new front-end electronics package, as well as solid-state RAD-FET dosimeters providing an online measurement of the absorbed dose in the undulator magnets.

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