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Magnetic Measurement Activities by the ID Group at the National Synchrotron Light Source-II

The Insertion Device (ID) Group at the National Synchrotron Light Source-II (NSLS-II) has been actively engaged in upgrading the existing ID measurement system, including enhancements to the pulsed wire bench. The group is also focused on developing a new superconducting adaptive gap undulator (SC-AGU) [1] and its measurement system. A new measurement system is needed for the 4-meter-long cryogenic permanent magnet undulator, which is planned for the Experimental Tools III (NEXT-III) project [2]. Additionally, we have adopted a rotating coil/wire system, originally developed by APS, for the measurement of permanent magnet (PM) focusing quadrupoles as part of the NSLS-II upgrade. This paper reports on these activities.

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