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Status of the HELIOS Spectrometer at ATLAS ALAN WUOSMAA, Western Michigan University, Argonne National Laboratory, Manchester University, HELIOS COLLABORATION — The HELIOS device is a new spectrometer under construction at the ATLAS facility at Argonne National Laboratory designed to study transfer and inelastic scattering reactions in inverse kinematics, particularly with radioactive beams. The device consists of a large-bore, 3T superconducting solenoid with the magnetic axis aligned with the beam. Particles are transported along helical orbits from a target in the center of the solenoid to an array of position-sensitive silicon detectors placed along the solenoid axis. The construction of the spectrometer is well underway, including a new beam line, the components necessary to transform the magnet volume to a vacuum chamber, the detector arrays and moveable target mechanisms, all of which must function in a high magnetic field. The status of the construction and testing of the device will be presented. Work supported by the U. S. Department of Energy, Office of Nuclear Physics under grant numbers DE-FG02-04ER41320 and DE-AC02-06CH11357.

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