

NuMI Hadron Monitor calibration stand

The objective of the project is to develop a calibration stand for the NuMI Hadron Monitor. This monitor consists of a 5x5 grid of ionization chambers and is positioned downstream of the target system to detect charged particles that are extracted from the target. The monitor plays a crucial role in accurately aligning the target on the beamline. The calibration stand is made to calibrate the signal of individual grid of the brand-new hadron monitor by using a radioactive source. We will develop the motion control system which reads a position of the radioactive source with respect to the individual grid location from the position sensor and feedbacks to the motor driver to position the source to the desired location.

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