



Jefferson Lab Alignment Group

Data Transmittal

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Checked:

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DETAILS:

Below are the results from the November 28th and 29th survey of the Hall A hydrogen target, sweeper magnet and sieve slits. The ideal target center is located upstream of the standard Hall A target by a distance of 800 millimeters. The values are relative to this target center position, in a beam following system, with +Z downstream, +X to the beam left, and +Y up. All units are millimeters and decimal degrees.

The electron and hadron septum sieve slits are given as locations relative to the target center. These locations refer to the centers of the sieve slits.

The ideal center of the sweeper magnet is located downstream from the target a distance of 350 millimeters. The position of the sweeper is also given relative to this ideal center.

Component	Z	X	Y	Yaw	Pitch	Roll
Hydrogen Target	1.9	1.0	-1.1	0.311°	-0.047°	0.110°
Hadron (right) Septum Slit	794.2	-82.5	-0.2	-5.967°		
Electron (left) Septum Slit	796.4	83.1	-0.3	7.573°		
Sweeper Magnet	349.8	0.2	-1.5	0.098°	0.081°	0.133°
Sweeper Magnet (from ideal)	-0.2	0.2	-1.5			