Jefferson Lab Alignment Group

Data Transmittal

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Details:

Below are the results of the septum magnet alignment at the 9 degree position, carried out in Hall A on 21st March, 2003, and the as-found survey at the 6 degree position carried out on April 21st. The results show the differences from ideal location for the visible fiducials on the magnet. Since these are not evenly located around the magnet, a reduction to the center has been carried out, and these deltas are also shown. The values are in millimeters in a beam following system, with +Z being downstream, +X to the beam left, and +Y up.
The coordinates of the ideal values are also shown for reference and are based on the original target center.

Point	DZ	DX	DY
H9SEP03	-1.67	1.27	0.19
H9SEP04	-1.86	1.12	0.20
H9SEP05	-2.04	-0.08	0.27
H9SEP09	-1.08	0.59	0.62
H9SEP10	-2.20	0.51	0.16
H9SEP11	-2.28	-0.62	0.14
Found Ctr.	-1.16	0.12	0.57
Ideal Ctr.	757.12	-287.87	0.00

H6SEP04	1.15	-0.51	-0.18
H6SEP05	1.30	-0.36	-0.58
H6SEP10	1.45	-0.98	-0.11
H6SEP11	1.62	-0.68	-0.66
Found Ctr.	1.21	-0.62	-0.21
Ideal Ctr.	719.57	-200.69	0.00