Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:

Data: Step2B\HALLA\TARGET\2006\060717
Local: 2B\HallA\Targetcan\060711a

Below are the results from the July 17, 2006 survey performed on the Hall A target assembly and the Ladex experiment sieves. The values are relative to ideal target center position (in millimeters and degrees), with +X to the beam left, +Z downstream, and +Y up. A +pitch angle is clockwise looking from the beam left side, a +yaw angle is counter clockwise looking from above, and a +roll angle is counter clockwise looking from upstream. Note: the two solid targets were measured to the upstream face.

TARGET ASSEMBLY

LOCATION	X	Y	Z	Pitch	Yaw
Tgt. loop 1 - 4cm (top)	0.36	-0.10	0.11	-0.05	0.21
Tgt. loop 1 -15cm	0.87	0.07	0.07	-0.07	0.27
Tgt. loop 2 - 4 cm	0.13	0.01	-0.01	0.10	0.16
Tgt. loop 2 -15 cm	0.51	0.02	0.01	0.07	0.21
Tgt. loop 3 - 4 cm	0.10	0.04	-0.34	-0.08	0.14
Tgt. loop 3 -15 cm (bot)	0.61	0.00	0.19	-0.18	0.13
Tgt. loop 3 – 15cm repeat.	0.35	-0.21	0.15	-0.19	0.03
Optics frame				-0.14	0.21
Solid Be O	0.46	-0.05	-5.96	-0.56	0.10
0.2 inch thick rotated solid.	1.68	-0.21	-6.92	-1.42	-30.32

SPECTROMETER SIEVES
Note: The left spectrometer was rotated after this survey.

LOCATION	X	Y	Z	Pitch	Yaw	Roll
Left sieve center upstream face	976.86	3.86	-66.84	0.23	93.73	0.14
Right sieve center upstream face	-261.92	-2.14	971.96	0.01	-15.23	0.19