



Jefferson Lab Alignment Group

Data Transmittal

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FROM: J. Dahlberg

Checked:

: A1233

DETAILS:

DATA: Inspection\HallA\He3compass\090618a

Below are the results of the Hall A He3 coil field mapping survey carried out on June 19 2009. A gravity based coordinate system is centered on the ideal Hall A target position with a +X to the beam left, a +Z downstream, and a +Y up. The horizontal compass coordinates are to the top of the iron compass rod. Values are in millimeters and degrees. A + yaw angle is counter clockwise looking from above.

LOC. (BB at 75°)	Z	X	Y	YAW
0US	-232.08	3.14	-1.14	+0.125
0DS	224.83	4.14	2.00	
45BL	158.01	165.11	3.26	+0.276
45BR	-163.84	-159.86	-0.21	
90BR	-2.04	-225.69	-0.81	+0.214
90BL	-3.74	231.21	2.47	
135BL	-171.23	159.93	1.54	-0.062
135BR	151.53	-163.54	-0.91	
180DS	225.61	3.64	-1.14	-0.210
180US	-231.35	5.32	1.72	
225BR	-161.88	-154.22	2.26	-0.092
225BL	161.60	168.22	0.19	
270BL	1.82	238.43	-0.40	+0.180
270BR	3.25	-218.43	3.09	
315BR	163.49	-153.10	4.49	-0.573
315BL	-156.52	173.38	-2.81	

LOC. (BB at 82°)	Z	X	Y	YAW
315BL	-156.53	173.39	-2.82	-0.625
315BR	163.25	-153.45	2.61	
270BR	4.41	-218.45	2.93	+0.151
270BL	3.21	238.42	-0.98	
225BL	166.03	163.96	0.01	-0.146
225BR	-157.84	-158.26	2.37	
180US	-224.51	3.16	1.98	-0.117
180DS	232.37	2.23	0.02	
135BL	-157.07	164.58	3.60	-0.132
135BR	165.17	-159.15	-0.82	
90BL	2.34	238.77	1.88	+0.492
90BR	6.27	-218.28	-2.13	
45BR	-156.80	-152.07	-0.51	+0.366
45BL	164.41	173.26	3.72	
0DS	225.36	5.24	4.10	+0.334
0US	-231.51	2.58	-2.11	