



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** Y. Qiang, J.P.Chen, J. LeRose

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**FROM:** James Dahlberg

**Checked:**

**# :** A1226

**DETAILS:**

DATA: Inspection\HallA\He3compass\090408a

Below are the results of the Hall A He3 coil field mapping survey carried out on Apr 8, 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, a + roll angle is clockwise looking from upstream.

LOC. (Vert. comp.)	Z	X	Y	ROLL	YAW
LASER1	-59.44	2866.33	-91.71	-1.923	+1.200
COMPASS1	0.60	0.31	4.53		
LASER2	-99.83	2866.88	-73.67	-1.563	+2.007
COMPASS2	0.60	0.31	4.53		
LASER3	-315.11	2867.52	-80.42	-1.662	+2.172
COMPASS3	-206.38	-0.11	2.81		

LOC. (Horz. Comp.)	Z	X	Y	YAW
90BL	-5.08	231.36	9.28	+1.708
90BR	8.53	-225.24	9.64	
45BR	-160.76	-157.66	8.87	-0.230
45BL	163.58	164.09	9.97	
0DS	230.12	-1.63	10.52	-1.477
0US	-226.93	10.15	7.81	
315BL	-136.74	180.47	9.10	-10.136
315BR	124.34	-194.29	10.32	
270BR	-8.92	-235.87	9.51	-0.634
270BL	-3.86	221.07	8.68	
225BL	155.83	153.44	6.97	-0.300
225BR	-169.16	-168.16	13.23	
180US	-234.87	-11.25	9.51	0.838
180DS	222.11	-4.57	7.08	
135BR	135.21	-186.50	7.93	-6.461
135BL	-149.41	170.82	10.32	
0DSNBB	225.13	0.12	9.89	-0.511
0USNBB	-231.79	4.20	8.04	
90BRNBB	1.88	-227.36	8.55	1.304
90BLNBB	-8.52	229.46	9.71	
180USNBB	-235.88	-3.15	7.61	-0.027
180DSNBB	220.98	-3.36	10.32	
270BLNBB	-3.00	217.99	9.44	-0.231
270BRNBB	-4.84	-238.88	8.96	