## Jefferson Lab Alignment Group

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## **Data Transmittal**

TO: J. Segal, C. Munoz Camacho, J. LeRose, S. Nanda			<b>DATE: </b> 02 Oct 2008		
FROM: J. Dahlberg	Checked:		<b># :</b> A1185		
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## DETAILS:

DATA: Step2B\BSY\BSY9A\080929A, 081006A

Below are the results of the recent survey performed on the Hall A Compton detector and chicane dipoles. The detector positions are derived from the fiducial data and are to the center of the bottom of the frame on the upstream face when driven to the lower limit switch. A +X is to the beam left, a +Z is downstream, and a +Y is up. A + yaw is counter clockwise looking from above, a + pitch is ccw looking from the beam right, and a + roll is cw looking downstream. Values are based on the ideal position of the detector chamber in the straight ahead beam line. Values are in millimeters and degrees.

INITIAL ALIGNMENT WITH CHAMBER UNDER VACUUM										
LOCATION	Z	X	Y	YAW	PITCH	ROLL				
Vacuum chamber Detector Det. at upper limit.	-9.05 32.61	3.72 3.74	3.54 -54.74 74.98	-1.303 -1.478	0.071 2.976	0.164 -0.033				
DETECTOR CHAMBER AT ATMOSPHERE										
LOCATION	Z	X	Y	YAW	PITCH	ROLL				
Vacuum chamber Detector Det. at upper limit.	-8.09 33.51	3.79 3.81	3.60 -54.71 75.01	-1.313 -1.473	0.131 2.991	0.180 -0.023				
MOTOR DRIVE CA LOCATION	LIBRATION Z	I AT ATM X	OSPHERE	Y						
Measure #1 #2 #3 #4 #5	50.40 50.30 50.09 50.28 50.38	2.34 2.29 2.26 2.35 2.35	398 419 438 410 40	8.93 5.59 8.10 6.14 1.17						
CHICANE DIPOLE	Z	2	X	Y						
MC1P01 MC1P02 MC1P03 MC1P04	0.0 -0. -0.	04 16 13 78	0.05 0.17 0.70 -0.01	-0.20 -0.58 -0.91 -0.29						