



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** D. Gaskell, S. Wood

**DATE:** 16 Jul 2010

**FROM:** J. Dahlberg

**Checked:**

**# :** C1305

**DETAILS:**

Data: 2b\BSY\Qw9C\100630b, 100527a  
Fid\HallC\Moller\100526a

Listed below are the results from the recent survey carried out on the line C Moller Polarimeter components. The first set of data shows the location of the listed components relative to their ideal location. A +X is to the beam left from ideal, a +Z is downstream, and a +Y is up. A + yaw angle is counter clockwise looking from above, a + pitch is ccw looking from the beam right, and a + roll angle is cw looking from upstream.

The second set of data show the location of the detector centers relative to the Moller target. The coordinates of the detector collimators are to the upstream face. The final location of the detector collimators were surveyed after the lead shielding was stacked on the girder. Because of deformation in the girders, there may be some error relating the girder fiducials back to the collimator centers. Values are in millimeters.

Location	Z	X	Y	Yaw	Pitch	Roll
	(Millimeters)			(Degrees)		
TARGET	0.06	0.29	0.21	0.011	0.043	0.109
QF3M01	2.60	0.01	0.12	0.001	-0.036	0.028
CO3M01	4.32	-0.06	0.26	-0.029	-0.009	0.059
QE3M02	-2.84	-0.79	-0.17	-0.004	0.031	-0.008
QE3M03	-0.12	-0.06	-0.15	-0.019	0.019	-0.019
<b>Detector Data</b>						
Detector	Z. Dnst.	X	Y			
Left	11191.8	486.6	-4.1			
Right	11189.1	-482.7	-2.2			