Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:

DATA: Step2B\HallA\DVCS\100903A

The DVCS (2010) calorimeter was aligned September 3rd, 2010. The calorimeter was aligned at an angle of 14.78° beam right and at distances 1.1 and 5.5 meters from the Hall A target center. The reference point for the calorimeter is the upstream face of the PbF2 crystals and at a point as shown on drawing A00000-01-14-0900 sheet 2. The results are shown below.

X(m), Y(m) and Z(m) are the ideal coordinates for the calorimeter reference point in the CEBAF coordinate system (meters). dx, dy and dz are the locations in the beam following system (millimeters). A +x indicates the location is to the beam left, a +y indicates the location is high, and a +z indicates the component is downstream of ideal. A + dYaw angle is counter clockwise looking from above, a + dPitch is ccw looking from the beam right, and a + dRoll angle is cw looking from upstream.

Location	X (m)	Y (m)	Z (m)	dx (mm)	dy (mm)	dz (mm)	dYaw °	dPitch °	dRoll °
1.1 M	-32.0883	100.0220	-393.7041	-0.22	0.46	0.27	-0.004	-0.093	0.010
5.5 M	-28.6079	100.0220	-396.3960	-0.70	1.92	0.41	-0.026	-0.134	0.076