Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:

Data: 2B\BSY\1C_12\160119a

Below are the results from the recent survey carried out on the Line A Compton Electron detector. The detector point of reference is centered on the bottom of the upstream sensor. The locations listed below are offsets from where this point of reference would be relative to the ideal running position of 53.9 mm below the main beam. Based on the chicane beam line ideally at 35.6 mm below the main beam, this would put the point of reference at 19.6 mm below the **chicane beam** (-53.9 +35.6 -1.27) in the lower position and 76.1 mm above the **main beam** (-53.9 -1.27 +131.27) when in the home position.

Values are based on a right handed coordinate system in millimeters. A +X is to the beam left, +Y is up, and a –Z is upstream. A –yaw angle (in degrees), is clockwise looking from above, a +pitch is ccw looking from the beam right, and a –roll angle is ccw looking from upstream.

ELECTRON DETECTOR

LOCATION	Z	X	Y	YAW	PITCH	ROLL
Lower Pos.	-2.89	1.52	-1.27	-0.5441	1.9272	-0.2971
Home Pos..			131.27			