

Jefferson Lab Alignment Group

Data Transmittal

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FROM: J. Dahlberg Checked: #: A1191

DETAILS:

Data: Step2b\HallA\BigBite_Detector\080916A, 080916B

Below are the results from the survey performed on the BigBite detectors and sieve. The coordinates (in millimeters) are based on the ideal Hall A target center and straight ahead beam. A +X is to the beam left, a +Z is downstream, and a +Y is up. The corner points on the detectors are to the upstream of the detector frames. **Note:** The detector package was fiducialized in a vertical position on the floor. During this survey in the installed location, as much as 2 millimeters of deformation was seen on the fiducial points. The detector centers and corner points are derived from the fiducial points.

	LOCATION	Z	X	Υ
	SIEVE	943.84	-555.84	0.65
DETECTOR CENTERS	LOCATION	Z	X	Υ
	1CL 2CL 3CL	2472.12 2583.87 3176.39	-1401.24 -1465.18 -1806.91	68.02 80.59 219.00
DETECTOR CORNERS	LOCATION	Z	X	Υ
	1TOPBR 1TOPBL 1BOTBR 1BOTBL 2TOPBR 2TOPBL 2BOTBR 2BOTBL 3TOPBR 3TOPBL 3BOTBR 3BOTBL	2131.91 2536.33 2407.86 2812.39 2146.70 2650.24 2517.17 3021.39 2739.26 3241.61 3111.11 3613.57	-1672.18 -967.20 -1835.29 -1130.29 -1792.30 -917.50 -2013.47 -1137.42 -2133.55 -1257.96 -2355.96 -1480.15	952.92 950.87 -814.59 -817.12 1272.20 1269.77 -1108.66 -1110.96 1409.74 1408.73 -970.74 -971.74
DETECTOR FIDUCIALS	LOCATION	Z	X	Υ
	HABBDTA HABBDTC HABBDTD HABBDTE HABBDTF HABBDTG HABBDTG	4008.92 2953.59 3362.88 4101.87 2028.62 3132.90 3232.47 2433.28	-1267.36 -603.80 -846.39 -1331.23 -2209.90 -2786.91 -2854.95 -2447.86	1650.27 1431.14 -1180.33 -1023.07 1428.66 1645.84 -1018.89 -1158.24