



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	Y
SIEVE	943.84	-555.84	0.65

DETECTOR CENTERS

LOCATION	Z	X	Y
1CL	2472.12	-1401.24	68.02
2CL	2583.87	-1465.18	80.59
3CL	3176.39	-1806.91	219.00

DETECTOR CORNERS

LOCATION	Z	X	Y
1TOPBR	2131.91	-1672.18	952.92
1TOPBL	2536.33	-967.20	950.87
1BOTBR	2407.86	-1835.29	-814.59
1BOTBL	2812.39	-1130.29	-817.12
2TOPBR	2146.70	-1792.30	1272.20
2TOPBL	2650.24	-917.50	1269.77
2BOTBR	2517.17	-2013.47	-1108.66
2BOTBL	3021.39	-1137.42	-1110.96
3TOPBR	2739.26	-2133.55	1409.74
3TOPBL	3241.61	-1257.96	1408.73
3BOTBR	3111.11	-2355.96	-970.74
3BOTBL	3613.57	-1480.15	-971.74

DETECTOR FIDUCIALS

LOCATION	Z	X	Y
HABBDTA	4008.92	-1267.36	1650.27
HABBDTB	2953.59	-603.80	1431.14
HABBDTC	3362.88	-846.39	-1180.33
HABBDTD	4101.87	-1331.23	-1023.07
HABBDTE	2028.62	-2209.90	1428.66
HABBDTF	3132.90	-2786.91	1645.84
HABBDTG	3232.47	-2854.95	-1018.89
HABBDTH	2433.28	-2447.86	-1158.24