



Jefferson Lab Alignment Group

Data Transmittal

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DATE: 13 Feb 2015

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Checked:

: B1597

DETAILS:

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Below are the calculated centroids and rotation angles of the FTOF 1A and 1B detectors. The coordinate system is based relative to the EC detector centerline. The Z axis is a line perpendicular to the constructed plane of the upstream corner points. Roll is defined by an average line through all detectors and the origin is the upstream face of the original hub. A positive Z is downstream, positive X is beam left and a positive Y is up. Values are in millimeters and degrees.

1A	X	Y	Z	Rx from Y	Ry from Z	Rz from X	i	j	k
DET 1 CENTER	2277.7	-5.9	-1433.6	90.0	24.9	0.1	0.4205	0.0008	0.9073
DET 2 CENTER	1142.7	1965.9	-1433.3	68.1	12.9	60.4	0.2072	0.3648	0.9077
DET 3 CENTER	-1137.1	1964.4	-1433.0	68.0	-12.9	119.4	-0.2070	0.3671	0.9069
DET 4 CENTER	-2274.6	-2.9	-1430.3	90.2	-24.8	-179.7	-0.4198	-0.0025	0.9076
DET 5 CENTER	-1134.3	-1975.3	-1435.7	112.0	-12.9	-119.6	-0.2081	-0.3663	0.9069
DET 6 CENTER	1140.5	-1970.0	-1437.0	111.9	13.2	-59.8	0.2122	-0.3652	0.9064
1B	X	Y	Z	Rx from Y	Ry from Z	Rz from X	i	j	k
DET 1 CENTER	2186.3	-1.4	-1572.9	90.0	24.8	0	-0.4197	-0.0002	-0.9077
DET 2 CENTER	1090.8	1888.3	-1572.3	67.9	12.9	60.4	-0.2074	-0.3657	-0.9073
DET 3 CENTER	-1095.7	1882.9	-1574.6	67.9	-12.9	119.4	0.2071	-0.3674	-0.9067
DET 4 CENTER	-2182.2	-4.3	-1570.2	90.1	-24.8	-179.7	0.4193	0.0024	-0.9078
DET 5 CENTER	-1084.9	-1893.5	-1573.5	111.9	-12.9	-119.6	0.2077	0.3651	-0.9075
DET 6 CENTER	1092.5	-1891.5	-1576.2	111.9	13.1	-59.9	-0.2115	0.3646	-0.9068