



Jefferson Lab Alignment Group

Data Transmittal

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Checked:

: A1378

DETAILS:

Data: Aalign\hadron\2011\H020411a

Below are the results from the SRC Big Bite magnet and detector survey carried out on Feb 04, 2011. A right handed coordinate system was established based on the ideal target center and rotated 64.4 degrees clockwise from straight ahead beam. A +X is to the beam left, a +Z is downstream, and a +Y is up. A +yaw angle is counter clockwise looking from above and a +pitch angle is ccw looking from the beam right side. Values are in millimeters and degrees. The detector location is to the upstream set of detectors. The Z coordinate is to a bisected plane from the upstream and downstream faces, the Y is to the vertical center, and the X is to the center of the support frame. Also included are the fiducial points surveyed for the magnet and detector stack based on the ideal target center and straight ahead beam.

LOCATION	Z	X	Y	YAW	PITCH	ROLL
MAGNET CL	1448.50	2.34	-1.01	-0.241	-0.346	0.095
DETECTOR	2458.7	0.9	419.9	0.429	25.506	-0.059

FIDUCIALS	Z	X	Y
BBMAG1	-123.98	-1696.35	919.65
BBMAG3	185.36	-2039.97	311.16
BBMAG4	97.53	-2107.03	-291.16
BBMAG5	-126.20	-1684.38	-892.61
BBMAG6	108.81	-2180.16	-896.00
BBDETA	1243.72	-3903.28	-178.81
BBDETB	2280.38	-3400.21	-181.05
BBDETC	1802.89	-3048.74	921.09
BBDETD	1262.53	-3313.61	917.95
BBDETE	840.87	-3072.04	1759.44
BBDETF	1876.06	-2568.49	1757.02
BBDETG	1308.84	-1954.63	1261.27
BBDETH	1612.23	-2570.99	-178.71
BBDE TJ	1006.06	-2869.22	-184.57
BBDETK	703.67	-2248.80	1263.78