

Jefferson Lab Alignment Group

DATA TRANSMITTAL

TO: Dave Kashy

DATE: July 9, 2002

FROM: Chris Gould

Checked:

: B791

DETAILS:

Below are the results of the Primex paddle detector survey performed the week of July 8th, 2002. A right hand coordinate system was established with +X to the beam left and +Y above centerline. The Z dimension is relative to the centerline of the Primex magnet located 11.627 meters upstream of the torus. The targets found on the upstream side of the paddles define the position of the detectors. Rotation angles are based on an average location of each detector set. Angles are counterclockwise from the central axis. Values are in mm and decimal degrees.

Detector	Z	X	Y
B1	1880.1	446.0	-2.5
B2	1863.3	415.0	-4.9
B3	1890.4	393.3	-5.2
B4	1874.2	363.1	-4.3
B5	1901.7	340.5	-3.9
B6	1883.3	310.1	-7.9
B7	1911.5	287.1	-4.0
B8	1894.7	255.9	-3.5

Rotation Angle = 101.1

B9	1890.8	-245.8	-4.5
B10	1908.9	-273.3	-4.6
B11	1880.9	-297.8	-5.6
B12	1898.4	-327.8	-5.5
B13	1871.8	-350.9	-3.4
B14	1890.6	-379.3	-4.0
B15	1862.4	-403.3	-4.8
B16	1880.3	-433.6	-3.4

Rotation Angle = 280.1

F1	1412.1	324.7	-2.6
F2	1405.8	304.4	-1.7
F3	1416.8	285.0	-2.4
F4	1412.1	264.8	-2.7
F5	1423.1	247.3	-4.0
F6	1419.9	227.3	-4.2
F7	1429.5	208.1	-5.1
F8	1426.5	186.2	-4.3

Rotation Angle = 99.3

F9	1432.5	-187.2	-2.8
F10	1438.3	-206.6	-3.9
F11	1427.0	-224.9	-3.3
F12	1429.9	-246.6	-3.9
F13	1418.2	-264.2	-5.1
F14	1423.5	-285.3	-1.3
F15	1411.2	-304.8	-3.3
F16	1415.4	-324.9	-3.3

Rotation Angle = 280.7