



Jefferson Lab Alignment Group

Data Transmittal

TO: D. Kashy, D. Dale

DATE: 31 Oct 2006

FROM: J. Dahlberg

Checked:

: B1083

DETAILS:

Data: step2b\HALLB\G13A\061026B, 061027A, hodoscopes2b

Below are the results from the hodoscope survey performed during the week of Oct 23, 2006 for the G13a experiment. With the exception of F09, which only has a target on the upstream face, all coordinates are to a mid point between the upstream and downstream targets glued onto each detector. A + X is beam left from ideal beam center, and a + Y is above. The Z distances are from the as set position of the pair spectrometer dipole. Values are in millimeters. Note that the detector stacks have limited adjustment capabilities and were only aligned for X, Z, and rotation about the vertical axis. See DT # B1082 for the pair spectrometer dipole position along with the remainder of beam line components.

| DET. | Z | X | Y | DET. | Z | X | Y |
|------|--------|-------|------|-------|--------|--------|------|
| F-4 | 1364.4 | 516.5 | -7.5 | F09US | 1416.5 | -282.6 | -0.9 |
| F-3 | 1376.6 | 497.1 | -4.2 | F10 | 1425.9 | -302.7 | -0.1 |
| F-2 | 1371.6 | 475.7 | -5.3 | F11 | 1411.6 | -321.0 | -0.8 |
| F-1 | 1385.5 | 458.5 | -2.1 | F12 | 1415.9 | -342.5 | 0.3 |
| F0 | 1381.4 | 438.9 | -3.8 | F13 | 1401.7 | -359.7 | 0.8 |
| F1 | 1395.6 | 419.1 | -3.3 | F14 | 1405.9 | -380.2 | 1.8 |
| F2 | 1391.7 | 398.6 | -1.0 | F15 | 1392.4 | -399.5 | 1.0 |
| F3 | 1404.3 | 379.8 | -3.9 | F16 | 1396.0 | -419.9 | 1.7 |
| F4 | 1401.4 | 359.4 | -2.6 | F17 | 1382.7 | -437.5 | -0.3 |
| F5 | 1413.8 | 342.9 | 0.1 | F18 | 1387.9 | -459.5 | 2.1 |
| F6 | 1410.7 | 321.7 | -1.3 | F19 | 1372.1 | -476.7 | 1.9 |
| F7 | 1423.7 | 303.3 | -3.7 | F20 | 1377.6 | -497.7 | 3.4 |
| F8 | 1420.8 | 282.6 | -0.4 | | | | |
| B13 | 1873.2 | 566.2 | -2.4 | B21 | 1898.3 | -377.9 | 0.0 |
| B14 | 1857.3 | 534.2 | -5.0 | B22 | 1914.3 | -407.6 | -3.3 |
| B15 | 1886.4 | 513.6 | -2.9 | B23 | 1884.5 | -430.0 | 0.4 |
| B16 | 1870.3 | 482.4 | -2.4 | B24 | 1899.5 | -460.2 | 1.8 |
| B17 | 1899.8 | 462.1 | -1.5 | B25 | 1871.8 | -481.3 | -0.9 |
| B18 | 1882.8 | 430.2 | -2.7 | B26 | 1888.5 | -512.1 | 2.6 |
| B19 | 1912.1 | 409.4 | -4.1 | B27 | 1858.0 | -533.7 | -0.3 |
| B20 | 1896.4 | 376.4 | -4.5 | B28 | 1875.8 | -564.4 | -0.2 |