



Jefferson Lab Alignment Group

Data Transmittal

TO: D. Kashy

DATE: 30 Oct 2006

FROM: James Dahlberg

Checked:

: B1082

DETAILS:

Data: step2b\HALLB\G13A\061025B, 061026B, 061027A

Below are the results from the survey performed during the week of Oct 23, 2006 for the G13a experiment. A + X is beam left from ideal, a + Y is above, and a - Z is upstream from ideal CLAS center. A +pitch is counter clockwise looking from the beam right, a +yaw is ccw from above, and a +roll is cw looking from upstream. Values are in millimeters and degrees. The ZXY values for the hodoscope are to the upstream target of the detector closest to beam line and the angular values are based on an average line using all the upstream and downstream targets on each set of detectors. The yaw value is from the ideal rotation of 14 degrees.

| COMPONENT | Z | X | Y | Yaw | Pitch | Roll |
|----------------|----------|-------|-------|---------|----------|---------|
| Sweeper | -15547.3 | +0.05 | +0.02 | +0.022° | +0.005° | -0.060° |
| Clean up coll. | -14310.6 | -0.15 | +0.26 | -0.004° | +0.016° | |
| IPH2H00 | -14111.0 | -0.05 | +0.33 | +0.071° | - 0.006° | +0.104° |
| Pair spect. | -12956.9 | 0.14 | +0.29 | -0.011° | +0.005° | +0.008° |
| 25.4 dia. Pipe | | +3.83 | -2.81 | | | |
| Hodoscope: | | | | | | |
| Upst bl | -11540.2 | -0.54 | -0.73 | -0.057° | +0.511° | -1.004° |
| Upst br | -11540.4 | -0.58 | -0.52 | +0.044° | -0.235° | -0.734° |
| Dnst bl | -11070.9 | -0.29 | -3.39 | -0.076° | -0.322° | +0.118° |
| Dnst br | -11069.4 | -0.66 | -0.69 | -0.029° | -0.315° | -0.411° |
| Target cell | -200.4 | -0.19 | -0.19 | 0.000° | +0.001° | |
| Start counter | -197.3 | -0.98 | +0.36 | -0.103° | +0.040° | +0.051° |