

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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DATE: Jul 3, 2002

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Checked:

: A790

DETAILS:

Below are the results from the spectrometer pointing and superharp surveys carried out on the Electron (left) and Hadron (right) arms on June 25th, 2002. For the superharps, the values represent the difference in millimeters from the ideal position of each fiducial. A positive X value is to the beam left, a positive Y is too high.

===== RESULTS ===== E062502A

The central ray of the spectrometer is at -74.979 degrees.
It is missing the defined target center by 3.10 mm upstream,
and -0.54 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 285.000 degrees.

*.9PR : 0.107 *.3DD : 1.28

===== RESULTS ===== H062502A

The central ray of the spectrometer is at 66.270 degrees.
It is missing the defined target center by 0.12 mm upstream,
and 2.12 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 66.271 degrees.

9PR : 0.096 *.3DD : 1.86

Superharps

| | DX | DY | locations in mm (+ is beam left) |
|---------|-----------|-----------|---|
| SH1H01A | 0.19 | 0.30 | |
| SH1H01B | 0.31 | 0.29 | |
| SH1H01C | 0.31 | 0.28 | |
| SH1H02A | -0.08 | 0.26 | |
| SH1H02B | 0.03 | 0.29 | |
| SH1H02C | 0.01 | 0.34 | |