

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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DATE: 29 September, 2000

FROM: C. J. Curtis

Checked: # : A631r

DETAILS:

Below are the results from the spectrometer pointing and superharp surveys carried out on the Electron arm on September 26, and the Hadron arm on September 27. The superharp values have been revised.

===== RESULTS ===== E092600C

The central ray of the spectrometer is at -15.983 degrees.
It is missing the defined target center by 3.31 mm upstream,
and -.07 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at -16.006 degrees.

*.3dd = 0.97

*.9pr = 0.09

===== RESULTS ===== H092700a

The central ray of the spectrometer is at 16.017 degrees.
It is missing the defined target center by 3.22 mm downstream,
and -.71 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 15.996 degrees.

*.3dd = 1.47

*.9pr = 0.14

| Superharps | DX | DY | locations in mm (+ is beam left) |
|------------|-------|-------|----------------------------------|
| SH1H01A | 0.02 | -0.05 | |
| SH1H01B | 0.13 | -0.10 | |
| SH1H01C | 0.10 | -0.12 | |
| SH1H02A | -0.24 | 0.19 | |
| SH1H02B | -0.19 | 0.22 | |
| SH1H02C | -0.16 | 0.26 | |