# Jefferson Lab Alignment Group <br> DATA TRANSMITTAL 

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DETAILS:
Below are the results from the spectrometer pointing and superharp surveys carried out on the Electron and Hadron arms between January $30^{\text {th }}$ and February $2^{\text {nd }}$.
$================$ RESULTS $===============\mathrm{H} 013001 \mathrm{~B}$
The central ray of the spectrometer is at 21.014 degrees. It is missing the defined target center by .29 mm downstream, and -0.07 mm vertically (positive $=u p$ ).

If the offset is corrected by secondary alignment, the spectrometer will be at 21.012 degrees.
*. $3 \mathrm{dd}=1.28 \quad * .9 \mathrm{pr}=0.13$
=================RESULTS ================ H013101A
The central ray of the spectrometer is at 25.050 degrees. It is missing the defined target center by .24 mm upstream, and -0.12 mm vertically (positive $=u p$ ).

If the offset is corrected by secondary alignment, the spectrometer will be at 25.051 degrees.
$* .3 \mathrm{dd}=1.14 \quad * .9 \mathrm{pr}=0.11$
$================$ RESULTS $===============\mathrm{E} 020101 \mathrm{~A}$
The central ray of the spectrometer is at -16.024 degrees.
It is missing the defined target center by 1.76 mm upstream, and 0.04 mm vertically (positive $=u p$ ).

If the offset is corrected by secondary alignment, the spectrometer will be at -16.036 degrees.
*.3dd $=1.26 \quad * .9 p r=0.11$

## DATA TRANSMITTAL (cont.)

\# : A653

| Superharps | DX | DY | locations in mm (+ is beam left) E020101A |
| :---: | :---: | :---: | :---: |


| SH1H01A | 0.01 | 0.08 |
| :--- | :--- | :--- |
| SH1H01B | 0.10 | 0.04 |
| SH1H01C | 0.13 | 0.04 |
|  |  |  |
| SH1H02A | -0.22 | 0.15 |
| SH1H02B | -0.11 | 0.15 |
| SH1H02C | -0.14 | 0.24 |

================ RESULTS =============== E020201A
The central ray of the spectrometer is at 140.513 degrees.
It is missing the defined target center by 2.62 mm upstream, and -0.36 mm vertically (positive $=u p$ ).

If the offset is corrected by secondary alignment, the spectrometer will be at 320.496 degrees.

$$
\text { *. } 3 \mathrm{dd}=1.57 \quad \text { *. } 9 \mathrm{pr}=0.10
$$

| Superharps | DX | DY |
| :--- | :---: | :---: |
|  |  |  |
| SH1H01A | 0.04 | 0.15 |
| SH1H01B | 0.12 | 0.12 |
| SH1H01C | 0.15 | 0.10 |
|  |  |  |
| SH1H02A | -0.10 | 0.24 |
| SH1H02B | -0.03 | 0.23 |
| SH1H02C | -0.01 | 0.29 |

