

# Jefferson Lab Alignment Group

## DATA TRANSMITTAL

TO: J. Gomez, D. Meekins, A. Saha, J. LeRose

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FROM: Chris Curtis

Checked: # A600

### DETAILS:

Below are the results from the spectrometer pointing and superharp survey carried out on the Electron arm on May 15. The superharp results show a change of approximately 0.6mm to the beam left for superharp #1 (upstream). This can be clearly seen on the accompanying graph.

### ===== RESULTS ===== E051500a

The central ray of the spectrometer is at -18.083 degrees.  
It is missing the defined target center by 2.44 mm upstream,  
and .23 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at -18.100 degrees.

\*.3dd = 1.01      \*.9pr = 0.13

### E051500 - movements in mm (+ needs to go left)

	DZ	DX	DY
1a	-0.60	-0.45	-0.17
1b	-0.76	-0.54	-0.13
1c	-0.92	-0.56	-0.18
Average	-0.76	-0.52	-0.16
2a	-1.07	0.18	-0.28
2b	-1.15	0.10	-0.20
2c	-1.25	0.14	-0.15
Average	-1.16	0.14	-0.21

### OPTICAL TOOLING - locations in mm (+ is beam left)

1b X	0.62
2b X	0.03