

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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FROM: C.J. Curtis **Checked:** **# :** A708

DETAILS:

Below are the results from the spectrometer pointing and superharp surveys carried out on the Hadron and Electron arms on October 8th and 9th, 2001. The superharps were measured both on the 8th (before the target can was under vacuum) and on the 9th (after vacuum). Both sets of results are given for reference.

===== RESULTS ===== H100801B

The central ray of the spectrometer is at 56.218 degrees.
It is missing the defined target center by 0.50 mm upstream,
and 0.82 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 56.221 degrees.

*.9PR : 0.114 *.3DD : 1.95

===== RESULTS ===== E100901A

The central ray of the spectrometer is at -12.496 degrees.
It is missing the defined target center by 1.37 mm upstream,
and -0.48 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at -12.506 degrees.

*.9PR : 0.106 *.3DD : 1.08

Superharps	locations in mm (+ is beam left)			
	E100801		E100901	
	DX	DY	DX	DY
SH1H01A	-0.10	0.09	-0.10	0.07
SH1H01B	-0.01	0.05	-0.01	0.02
SH1H01C	-0.01	0.05	-0.04	0.04
SH1H02A	-0.17	0.01	-0.13	0.02
SH1H02B	-0.10	0.07	-0.09	0.07
SH1H02C	-0.11	0.10	-0.09	0.10