

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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Checked: # : A640

DETAILS:

Below are the results from the spectrometer pointing and superharp surveys carried out on the Electron arm on November 1st and the Hadron arm on October 31.

===== RESULTS ===== E110100A

The central ray of the spectrometer is at 148.230 degrees.
It is missing the defined target center by 2.26 mm upstream,
and -.48 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at -31.785 degrees.

*.3dd = 1.14

*.9pr = 0.10

===== RESULTS ===== H103000A

The central ray of the spectrometer is at 30.600 degrees.
It is missing the defined target center by 3.28 mm downstream,
and -.04 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 30.578 degrees.

*.3dd = 0.99

*.9pr = 0.14

Superharps	DX	DY	locations in mm (+ is beam left)
SH1H01A	-0.14	-0.03	
SH1H01B	0.00	-0.09	
SH1H01C	0.02	-0.09	
SH1H02A	-0.48	0.30	
SH1H02B	-0.36	0.30	
SH1H02C	-0.37	0.38	