

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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Checked:

: A730

DETAILS:

Below are the results from the spectrometer pointing and superharp surveys carried out on the Electron (left) arm on January 9th and 10th, 2002. For the superharps, the values represent the difference in millimeters from the ideal position of each fiducial. A positive X value is to the beam left, a positive Y is too high. These needed to be moved approximately 0.5mm.

===== RESULTS ===== E010902A

The central ray of the spectrometer is at 144.315 degrees.
It is missing the defined target center by 1.90 mm upstream,
and 0.76 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at -35.698 degrees.

*.9PR : 0.122 *.3DD : 2.16

===== RESULTS ===== E011002A

The central ray of the spectrometer is at 146.044 degrees.
It is missing the defined target center by 1.72 mm upstream,
and 0.68 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at -33.967 degrees.

*.9PR : 0.125 *.3DD : 1.90

Superharps

	E011002		locations in mm (+ is beam left)
	DX	DY	
SH1H01A	-0.03	0.03	
SH1H01B	0.11	-0.02	
SH1H01C	0.05	-0.02	
SH1H02A	-0.04	0.09	
SH1H02B	-0.00	0.09	
SH1H02C	-0.01	0.18	