

# Jefferson Lab Alignment Group

## DATA TRANSMITTAL

**TO:** B. Wojtsekhowski, J. Gomez, N. Liyanage, J. LeRose

**DATE:** 11 Jan 2002

**FROM:** C.J. Curtis

**Checked:**

**# :** A730

**DETAILS:**

Below are the results from the spectrometer pointing and superharp surveys carried out on the Electron (left) arm on January 9<sup>th</sup> and 10<sup>th</sup>, 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		
	DX	DY	locations in mm (+ is beam left)
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	