



# Jefferson Lab Alignment Group Data Transmittal

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**DATE:** 04/27/2016

**FROM:** K. Tremblay

**Checked:** [cjc]

**# :** A1713

**DETAILS:**

Data: Aalign\Electron&sh\2016\E042516a & H042516a

Below are the results from the survey of the Hall A spectrometers on April 25<sup>th</sup>, 2016. The horizontal pointing value shows how much the central axis of the spectrometer misses the ideal target. This value is perpendicular to the spectrometer axis, not along the beam line. For the vertical pointing, a positive value indicates that the spectrometer is pointing above the target.

===== RESULTS ===== E042516A

The central ray of the spectrometer is at -43.003 degrees  
The central ray is missing the defined target center by 1.33 [mm] Downstream  
and -2.17 mm vertically [positive value is up]

If the offset is corrected by secondary alignment, the spectrometer will be at -43.012 degrees

To achieve this optimal setting make the following adjustments:  
Horizontal corrections: Move rear jacks along tangent 1.35 mm Downstream

9 Par Aposter Val : 0.14 (mm)

===== RESULTS ===== H042516A

The central ray of the spectrometer is at 48.666 degrees  
The central ray is missing the defined target center by -3.30 [mm] Upstream  
and -1.38 mm vertically [positive value is up]

If the offset is corrected by secondary alignment, the spectrometer will be at 48.644 degrees

To achieve this optimal setting make the following adjustments:  
Horizontal corrections: Move rear jacks along tangeNt -3.36 mm Upstream

9 Par Aposter Val : 0.24 (mm)

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