



Jefferson Lab Alignment Group

Data Transmittal

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Checked: JD

: A1603

DETAILS:

DATA \ Aalign\Electron&sh\2015\E1022415A & DATA\ Aalign\Hadron\2015\H022315A

Below are the results from the surveys of the left spectrometer on Feb. 24, 2015 and right spectrometer on Feb. 23, 2015. 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 ===== E022415A

The central ray of the spectrometer is at -25.002 degrees.
The central ray is missing the defined target center by -1.60 [mm] Downstream
and -0.81 mm vertically [positive value is up]

If the offset is corrected by secondary alignment, the
spectrometer will be at -25.012 degrees.

To achieve this optimal setting make the following adjustments:
Horizontal corrections: Move rear jacks along tangent -1.63 mm Upstream
9 Par Aposter Val : 0.13 (mm)
3dd stdev : 0.79

===== RESULTS ===== H022315A

The central ray of the spectrometer is at 43.755 degrees
The central ray is missing the defined target center by -0.69 [mm] Upstream
and -1.46 mm vertically [positive value is up]

If the offset is corrected by secondary alignment, the
spectrometer will be at 43.750 degrees

To achieve this optimal setting make the following adjustments:
Horizontal corrections: Move rear jacks along tangent -0.70 mm Upstream
9 Par Aposter Val : 0.24 (mm)
3dd stdev : 1.08