

a



Jefferson Lab Alignment Group Data Transmittal

TO: B. Sawatzky, D. Gaskel, M. Jones, S. Lassiter, M. Fowler

DATE: 08/04/2017

FROM: Kelly Tremblay

Checked: SEH

: C1809r

DETAILS:

data: aalign\hms\h 20170804

Below are the results from the survey of HMS spectrometer August 4th, 2017. The HMS fiducial points were observed from the beam left side of the spectrometer.

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 ===== H20170804

The central ray of the spectrometer is at 50.005 degrees
The central ray is missing the defined target center by 2.92 [mm] Upstream
and -1.07 mm vertically [positive value is up]

9 Par Aposter Val : 0.58 (mm)

Sketch for the HMS survey is shown on the next page.

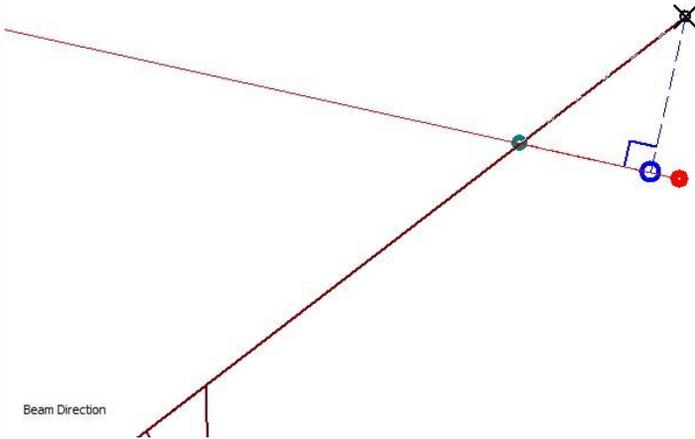
H20170804

-  Beam-Spec Intercept Point
-  Beam-Spec Perpendicular Point
-  Spectrometer Projected Target Point
-  Straight-Ahead Target Point [ideal]

angles: delta : 50.00449 [degrees]
beam : -142.48325 [degrees]
spectrometer: 167.51226 [degrees]

perpendicular distance : 2.919 [mm]
target - intersect dis : 3.810 [mm]
found target - intersect dis : 3.003 [mm]
Spectrometer is -1.07 lower than ideal target [m

-  Spectrometer Line
-  Straight-Ahead Beam
-  Perpendicular line



Beam Direction