



Jefferson Lab Alignment Group Data Transmittal

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DETAILS:

data: aalign\hms\H20191127

Below are the results from the survey of HMS spectrometer November 27th, 2019. 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.

===== HMS RESULTS ===== M112719

The central ray of the spectrometer is at 12.490 degrees
The central ray is missing the defined target center by 1.20 [mm] Upstream
and -1.82 mm vertically [positive value is up]

9 Par A posteriori value : 0.96 (mm)

M112719 --> M112719

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

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angles: delta : 12.49037 [degrees]
        beam      : -142.48325 [degrees]
        spectrometer: 205.02638 [degrees]

perpendicular distance : 1.195 [mm]
target - intersect dis : 5.523 [mm]
found target - intersect dis : 6.888 [mm]
Spectrometer is -1.82 lower than ideal target [mm]

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- Spectrometer Line
- Straight-Ahead Beam
- Perpendicular line

