

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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Checked: # 577

DETAILS:

Below are the results from the spectrometer pointing surveys carried out on the Electron arm on February 22, and the Hadron arm on February 24..

===== RESULTS ===== E022200A

The central ray of the spectrometer is at -16.383 degrees.
It is missing the defined target center by 2.74 mm upstream,
and .35 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at -16.401 degrees.

To achieve this optimal setting, make the following adjustments:

Horizontal corrections:

Move rear jacks along tangent 2.79 mm upstream.

Vertical corrections (positive = up):

Central jack: 1.22 mm. U/s rear jack: 2.63 mm. D/s rear jack: 3.00 mm.

*.3dd = 1.14 *.9pr = 0.12

===== RESULTS ===== H022400A

The central ray of the spectrometer is at 69.793 degrees.
It is missing the defined target center by .15 mm downstream,
and 1.64 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 69.792 degrees.

To achieve this optimal setting, make the following adjustments:

Horizontal corrections:

Move rear jacks along tangent .15 mm downstream.

Vertical corrections (positive = up):

Central jack: -.55 mm. U/s rear jack: .13 mm. D/s rear jack: .99 mm.

*.3dd = 1.12 *.9pr = 0.14