

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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FROM: Chris Curtis

Checked: # 565

DETAILS:

Below are the results from the spectrometer pointing surveys carried out on the Hadron arm on November 19th and 30th.

===== RESULTS ===== H111999B

The central ray of the spectrometer is at 30.139 degrees.
It is missing the defined target center by .14 mm upstream,
and -.34 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 30.140 degrees.

To achieve this optimal setting, make the following adjustments:

Horizontal corrections:

Move rear jacks along tangent .14 mm upstream.

Vertical corrections (positive = up):

Central jack: 1.14 mm. U/s rear jack: 1.61 mm. D/s rear jack: 2.30 mm.

*.3dd = 1.39 *.9pr = 0.13

===== RESULTS ===== H113099A

The central ray of the spectrometer is at 45.200 degrees.
It is missing the defined target center by .19 mm upstream,
and .25 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the spectrometer will be at 45.201 degrees.

To achieve this optimal setting, make the following adjustments:

Horizontal corrections:

Move rear jacks along tangent .20 mm upstream.

Vertical corrections (positive = up):

Central jack: .48 mm. U/s rear jack: .51 mm. D/s rear jack: 1.94 mm.

*.3dd = 1.35 *.9pr = 0.10