

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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DATE: 10 July 2001

FROM: C.J. Curtis

Checked:

: A680

DETAILS:

Below are the results from the spectrometer pointing and superharp surveys carried out on the Hadron and Electron arms from July 3rd to July 6th, 2001.

===== RESULTS ===== E070301A

The central ray of the spectrometer is at -44.974 degrees.
It is missing the defined target center by 3.35 mm upstream,
and -0.71 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the
spectrometer will be at 315.003 degrees.

*.3dd = 1.07 *.9pr = 0.11

===== RESULTS ===== H070501A

The central ray of the spectrometer is at 44.995 degrees.
It is missing the defined target center by 0.76 mm upstream,
and 1.03 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the
spectrometer will be at 45.000 degrees.

*.3dd = 1.55 *.9pr = 0.15

===== RESULTS ===== E070601B

The central ray of the spectrometer is at -34.985 degrees.
It is missing the defined target center by 1.90 mm upstream,
and 0.02 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the
spectrometer will be at -34.998 degrees.

*.3dd = 1.31 *.9pr = 0.13

DATA TRANSMITTAL (cont.)

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===== RESULTS ===== H070601A

The central ray of the spectrometer is at 35.025 degrees.
It is missing the defined target center by 3.43 mm downstream,
and 0.81 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the
spectrometer will be at 35.001 degrees.

*.3dd = 1.43 *.9pr = 0.12

===== E070601B

Superharps	DX	DY	locations in mm (+ is beam left)
SH1H01A	-0.14	0.36	
SH1H01B	-0.01	0.31	
SH1H01C	-0.02	0.32	
SH1H02A	-0.18	0.31	
SH1H02B	-0.09	0.33	
SH1H02C	-0.08	0.38	