



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** J.P. Chen, J. LeRose

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**Checked:** JCD

**# :** A1140

**DETAILS:**

Data: AALIGN\Electron&sh\2007\E110707A & Hadron\H110707A

Below are the results from the left and right spectrometer surveys carried out on 7<sup>th</sup> November, together with the superharp information. The table shows the angle of the central ray of the spectrometer (in degrees); the horizontal mis-pointing perpendicular to the spectrometer center-line (in mm, d is downstream); the vertical mis-pointing (in mm, +ve is up) and the corrected pointing angle if the spectrometer were moved to point exactly at the target. The last two columns give statistics for the transformation (std. dev. of fit (9par)) and the adjustment (std. dev. (3DD)).

For the superharp girder components, the DX and DY values represent the difference in millimeters from the ideal position of each fiducial, except for the calorimeter which represents the centerline.

Spectrom.	Central Ray	H Misptg	V Misptg	Corrected Ptg	9par	3DD
<b>E110707A</b> (Left)	-59.990	0.36 u	+0.18	-59.993	0.159	1.68
<b>H110707A</b> (Right)	60.017	2.77 d	+2.26	59.998	0.140	1.66

	DX	DY
<b>Superharps</b>		
SH1H01A	0.18	0.36
SH1H01B	0.24	0.37
SH1H01C	0.28	0.41
SH1H02A	-0.70	0.31
SH1H02B	-0.62	0.32
SH1H02C	-0.61	0.38
<b>Cavity BPMs</b>		
BCM1H1B	0.18	0.06
BCM1H1C	0.17	0.19
BCM1H2A	-0.74	0.21
BCM1H2D	-0.18	0.14
<b>Calorimeter</b>		
MBC1H04	-0.27	0.17