



# Jefferson Lab Alignment Group

## Data Transmittal

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Checked:

# : A1189

### DETAILS:

Below are the results from the survey of the left spectrometer, the new spectrometer slits, superharps, calorimeter and the BCM carried out on 14<sup>th</sup> October, 2008. The values represent the difference in millimeters from the ideal position of each fiducial, except for the calorimeter which represents the centerline. A positive X value is to the beam left, a positive Y is too high.

===== RESULTS ===== E101408A

The central ray of the spectrometer is at -15.993 degrees.  
It is missing the defined target center by 1.63 mm upstream,  
and 0.98 mm vertically (positive = up).

If the offset is corrected by secondary alignment, the  
spectrometer will be at -16.004 degrees.

\*.9PR : 0.128      \*.3DD : 2.01

**Spectrometer Slit:** (DX/DY from spectrometer centerline; DZ from target)

DX	DY	DZ
-0.34	4.49	1157

### Superharps

	DX	DY
SH1H01A	0.11	0.00
SH1H01B	0.19	-0.01
SH1H01C	0.22	0.03
SH1H02A	-0.78	-0.20
SH1H02B	-0.72	-0.18
SH1H02C	-0.73	-0.14

### Cavity BPMs

BCM1H1B	0.07	-0.44
BCM1H1C	0.02	-0.35
BCM1H2A	-0.82	-0.29
BCM1H2D	-0.29	-0.32

### Calorimeter

IFY1H04	-0.35	-0.33
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