



Jefferson Lab Alignment Group

Data Transmittal

TO: J. Jaros

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FROM: J. Dahlberg

Checked: SEH

: B1458

DETAILS:

Data: Step2b\HALLB\HDICE\120523a

Below are the results from the HPS detector survey carried out on May 22, 2012. A right handed coordinate system (in millimeters) was established based on the ideal center of the pair spectrometer magnet located 1349.12 cm from CLAS. This is the ideal distance for the HD_ice run. A +X is to the beam left, a +Y is up, and a +Z is downstream.

LOCATION	X	Y	Z
FIDUCIALS:			
A	150.3	-59.2	-1270.9
B	149.1	-60.4	-76.0
C	-176.0	-60.0	-76.3
C-BAR RIGHT DOWNSTREAM INSIDE EDGE:			
lower corner	-164.8	-55.2	-176.2
upper corner	-164.3	56.0	-172.5
C-BAR LEFT DOWNSTREAM INSIDE VERTICAL EDGE:			
Lower	75.5	-17.9	-188.0
Upper	75.6	19.4	-187.3
SUPPORT PLATE DOWNSTREAM INSIDE SURFACE:			
Lower left	-62.8	-58.8	-219.7
Lower right	-109.4	-58.7	-217.5
Upper left	-56.1	58.2	-216.7
Upper right	-106.9	58.5	-220.8
SILICON SENSOR CORNERS:			
SVU3D		8.4	
SVU4D		13.7	
SVL2D		-11.8	
SVL1D		-11.3	
SVL1U		-10.0	
SVL2U		-19.7	
SVU3U		15.3	
SVU4U		15.1	