



Jefferson Lab Alignment Group

Data Transmittal

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DATE: 11 Mar 2015

FROM: Jacob Walker

Checked: SEH

: D1610

DETAILS:

M:\align\DATA\Step2B\HallD\TAGGER\150303A
M:\align\DATA\Inspection\HallD\150224A

Below are the results of the Hall D tagger goniometer alignment. All data is given in millimeters and relative to a beam following coordinate system where +X is left of beam, +Y is above beam, and +Z is downstream of center of the goniometer. A +pitch is counter clockwise looking from the beam right, a +yaw angle is ccw looking from above, and a +roll is cw looking from upstream.

Name	X(mm)	Y(mm)	Pitch(°)	Yaw(°)	Roll
Goniometer center at home position	-155.42	50.25			
Foil 1 at beam center	-0.01	0.01	-0.0929	0.1949	
Foil 2 at beam center	0.01	0.01	0.4229	0.0464	
Foil 3 at beam center	0.00	0.00	-0.3131	0.0614	
Foil 1 at home position	-148.12	48.03			
Foil 2 at home position	-152.22	23.83			
Foil 3 at home position	-178.70	30.51			
Goniometer pitch axis of rotation		-3.96			
Goniometer yaw axis of rotation	-155.49				
Glass plate			0.0841	0.1397	
Support Bar					0.0600