

Jefferson Lab Alignment Group

DATA TRANSMITTAL

TO: Chris Keith

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Checked: # : B619

DETAILS:

Below are the results of the Hall B polarized target survey performed in the EEL building on July 11, 2000. The data represents the influence varying degrees of vacuum and temperature had on the entrance window and targets. The central reference line was established using the downstream pinhole and the upstream 4.5" flange on the cryostat. The target mounting flange on top was used to set roll. The table below displays values in the beam following coordinate system (looking downstream) with positive X being to the beam left, and positive Y being above center. In addition to the table below, attached is a graphical representation of the identical information as viewed looking upstream. All values are in millimeters with an accuracy estimated to be under 0.20mm. Note that "Atmosphere" refers to the state in which both vacuum pumps are off and without cryogenics.

	Entrance Window		Top Target		Bottom Target	
	X	Y	X	Y	X	Y
Atmosphere	1.48	-1.38				
IV Pump	1.16	-3.61	0.96	-0.45	0.93	-0.49
IV & Fridge Pump	0.88	-1.55	0.94	-0.38		
IV Pump & Cold	1.50	-4.40	0.97	0.00	0.97	0.00
IV, Fridge & Cold	1.20	-1.68			0.80	0.50

