



Jefferson Lab Alignment Group

Data Transmittal

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Checked: TPSIII

: D1910

DETAILS:

Data: Step2B\HALLD\Target\190225a

Below are the results from the Hall D beryllium target survey carried out on February 25th, 2019. The target was surveyed in-place on the target cart first then the survey fiducials were updated to reflect the found center of the beryllium target.

The ideal and found coordinates are shown in meters relative to the CEBAF coordinate system. The beam following coordinates (bfs - millimeters) are also shown and are described as follows: Negative x is to the beam right from ideal beam looking downstream; negative y is the amount lower than beamline; negative z is amount upstream from ideal target. Positive yaw is the counter clockwise rotation about the Y axis; negative pitch is the clockwise rotation about the X axis (physics standard); positive roll is the clockwise rotation about the Z axis.

Beryllium Target	Cebaf Coordinate Location [meters]			Beam Following [millimeters]			Angular Position [degrees]		
	X [m]	Y [m]	Z [m]	dX [mm]	dY [mm]	dZ [mm]	Yaw°	Pitch°	Roll°
Ideal	80.60000	104.70000	398.78983	-	-	-	0.00000	0.00000	0.00000
As-Set	80.60016	104.69989	398.78921	-0.16	-0.108	-0.620	0.00802	-0.00344	-0.01662