



Jefferson Lab Alignment Group

Data Transmittal

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Checked: TPS III

: C1847

DETAILS:

M:\align\DATA\Step2B\BSY\3C_12\180109A

Listed below are the positions of IHA3H07A & B and their respective encoder values in decimal format. The encoder values are based on the wires at ideal beam center. The as-set locations are relative to the target along beam center where a +X is beam left, a +Y is up and a -Z is upstream of the target. The "Home" limit values are only provided as a sanity check since they were recorded by listening for the audible "click" of the limit switch.

	BFS RELATIVE TO TARGET (mm)			ROTATIONS °		
	X	Y	Z	PITCH (rX)	YAW (rY)	ROLL (rZ)
IHA3H07A	0.01	-0.12	-2953.30	-0.0778	0.0682	-0.0012
IHA3H07B	0.11	0.08	-1546.42	-0.0410	0.0623	0.0037

	IDEAL CEBAF MECHANICAL (M)			FOUND CEBAF MECHANICAL (M)		
	X	Y	Z	X	Y	Z
IHA3H07A	-122.51776	99.99750	-385.55341	-122.82339	99.99755	-385.95167
IHA3H07B	-123.64165	99.99750	-387.01720	-123.68036	99.99757	-387.06743

SUPER HARP ENCODER VALUES (Decimal)

	Outer Vert. Wire (harp retracted)	Middle Horiz. Wire	Inner Vert. Wire (harp extended)
IHA3H07A	051829	084788	113897
IHA3H07B	044389	080249	107666

	Home Encoder value
IHA3H07A	000223
IHA3H07B	000297