

Jefferson Lab Alignment Group

DATA TRANSMITTAL

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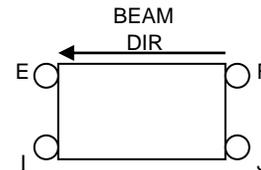
FROM: Jim Dahlberg

Checked: # : A682

DETAILS:

Below are the results of the Hall A compass and He3 target ladder alignment performed on July 5th and 6th, 2001. The numbers shown for the target ladder represent the amount the survey target would have to move (in mm) to be in the ideal location. A negative X is a movement to the beam right, positive Y is up, and positive Z is downstream. The compass angle deltas are offsets from the magnet field direction which is based on the incoming beam line. They are listed sequentially as surveyed in the field. CW is a rotation clockwise looking from above.

TARGET	DEL Z	DEL X	DEL Y
ATGLADE	0.60	-0.11	1.45
ATGLADF	0.14	0.12	2.72
ATGLADI	0.35	-0.18	1.58
ATGLADJ	-0.23	-0.69	2.06



COMPASS MEASUREMENTS

FIELD DIR. (DEG.)	GRADIENT COILS		COMPASS ANGLE DELTA (DEG.)
	T	L	
0	0	0	0.0333 cw
0	5	-2a	0.0020 cw
0	6	0a	0.0173 cw
0	0	-7a	0.0416 cw
180	0	-7	0.4308 cw
180	6	0	0.4503 cw
180	6	0	0.4352 cw
180	5	-2	0.4562 cw
180	0	0	0.4315 cw
180	0	0	0.2944 cw
180	0	0	0.2734 cw
180	0	0	0.3061 cw
180	0	0	0.3073 cw
180	0	0	0.3320 cw
180	0	0	0.5141 ccw
180	0	0	0.3469 ccw
180	0	0	0.0283 cw
270	0	0	0.2509 cw
270	5	-2	0.2556 cw
270	6	0	0.2598 cw
270	0	-7	0.2464 cw
90	0	-7	0.2536 cw
90	6	0	0.2583 cw
90	5	-2	0.2451 cw
90	0	0	0.2582 cw
270	0	0	0.5675 cw
270	0	0	0.1779 cw
0	0	0	0.3013 cw
0	0	0	0.2340 cw