



Jefferson Lab Alignment Group

Data Transmittal

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FROM: Kelly Tremblay

Checked: (jcd)

: B1323

DETAILS:

data : step2b\hallb\prmx10\100923A, & 100924C

The HYCAL detector in the calibration position, was surveyed September 23rd and 24th. The coordinates for the face of the lead tungstate crystals with the beam line is shown on the 2nd row (meters) below. This is the run Z location. The difference from these coordinates at the various epochs is shown in a beam following system in millimeters and degrees for the yaw, pitch and roll. A -dx indicates the found location is to the beam right, a -dy indicates the position is below ideal, and a -dz indicates the how far upstream from ideal. A + dYaw angle is counter clockwise looking from above, a + dPitch is ccw looking from the beam right, and a + dRoll angle is cw looking from upstream.

	X(M)	Y(M)	Z(M)	Yaw	Pitch	Roll	
HYCAL	-80.6000	103.3426	-392.4034	180.00	0.00	0.00	
Sept 23rd							
EPOCH	dx	dy	dz	d yaw	d pitch	d roll	Time
Start	-0.3	-100.3	-1185.3	0.0209	-0.0189	-0.0344	
HY_4	-0.7	-100.0	-1185.4	0.0218	-0.0209	-0.0347	
HY_5	-9.6	-100.0	-1185.4	0.0235	-0.0209	-0.0358	
HY_6	-19.6	-100.1	-1185.4	0.0243	-0.0186	-0.0361	
HY_7	-29.6	-100.1	-1185.4	0.0241	-0.0183	-0.0367	
HY_8	-39.5	-100.1	-1185.4	0.0232	-0.0172	-0.0367	
HY_9	-49.5	-100.1	-1185.3	0.0218	-0.0160	-0.0367	
HY_10	-582.8	-100.2	-1184.4	0.0175	-0.0181	-0.0338	
HY_11	-582.8	-100.2	-1184.3	0.0158	-0.0175	-0.0350	
HY_12	-582.8	-103.7	-1184.3	0.0160	-0.0198	-0.0330	
Sept 24th							
EPOCH	dx	dy	dz	d yaw	d pitch	d roll	Time
LOWER	-582.7	-672.0	-1184.8	0.0298	-0.0063	-0.0332	9:38 am
HY_1	-582.6	-662.4	-1184.8	0.0301	-0.0040	-0.0264	9:45 am
HY_2	-582.7	-671.8	-1184.8	0.0301	-0.0075	-0.0335	9:54 am
HY_3	-582.6	-662.1	-1184.8	0.0301	-0.0057	-0.0252	10:00 am
HY_4	-582.6	-652.2	-1184.7	0.0284	-0.0029	-0.0264	10:04 am
HY_5	-582.6	-642.4	-1184.5	0.0092	-0.0043	-0.0456	10:10 am
HY_6	-582.5	-632.1	-1184.8	0.0278	-0.0029	-0.0241	10:16 am
HY_7	-573.8	-632.1	-1184.8	0.0261	-0.0032	-0.0249	10:24 am
HY_8	-563.9	-632.1	-1184.8	0.0264	-0.0032	-0.0252	10:28 am
HY_9	-573.8	-632.1	-1184.8	0.0266	-0.0032	-0.0246	10:36 am
HY_10	-563.9	-632.1	-1184.8	0.0264	-0.0032	-0.0261	10:47 am
HY_11	-553.9	-632.1	-1184.8	0.0272	-0.0049	-0.0241	10:56 am
HY_12	-1.7	0.5	-1185.3	0.0229	-0.0252	-0.0344	1:06 pm
HY_13	-582.9	0.4	-1184.2	0.0163	-0.0198	-0.0318	2:17 pm
HY_14	-1.7	0.5	-1185.4	0.0243	-0.0229	-0.0332	2:42 pm