



Jefferson Lab Alignment Group

Data Transmittal

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Checked: (cjc)

: A1439

DETAILS:

data : step2b\halla\g2p\120307A, 120309A, 120313A & 120314A

The G2P BPMs IPM1H05A and 5B were surveyed in various run positions on various days in March 2012. The results are shown below. The column labeled 'run' indicates the components were set to the appropriate run number as per Yves Roblin's optim data. The column labeled 'Mar.' is the date in March when surveyed. 'Name' is the BPM name. The columns labeled 'Coordinates WRT G2p target' are the found coordinates based on a system with the origin at the G2P target, and looking upstream towards the accelerator. +Z is along beam towards the accelerator, +x is transverse, to the left looking upstream, and +y is up vertically from the beam. Deltas in beam following system, indicate the location from ideal, based on the optim coordinates. A +x is beam left looking downstream, +y is up in the vertical plane and +z is downstream along beam. The delta angular components are relative to Yves optim data and are the component centers. The ideal yaw and pitch are given for reference. Roll should be 0°. Units are millimeters and degrees.

run	Mar.	name	Coordinates WRT G2P target (mm)			Deltas in beam following system (mm)			Angular components from Optim Data (degrees)				
			x	y	z	dx	dy	dz	d yaw	d pitch	d roll	ideal yaw	ideal pitch
5	7	IPM1H05A	-0.3	-98.2	955.9	0.3	-1.0	-2.8	0.1022	0.1874	0.0751	142.500	6.075
5	7	IPM1H05B	-0.3	-69.7	691.8	0.3	-0.6	-2.8	0.1089	-0.1024	-12.2091	142.500	6.075
8	9	IPM1H05A	-0.4	-24.2	955.1	0.4	-0.7	-5.8	0.1433	0.1721	0.0418	142.500	1.479
8	9	IPM1H05B	-0.6	-17.1	689.6	0.6	-0.5	-5.8	0.1498	-0.1177	-12.3061	142.500	1.479
0	13	IPM1H05A	-0.3	-0.3	957.6	0.3	-0.3	-7.4	0.1199	-0.0226	0.0587	142.500	0.000
0	13	IPM1H05B	-0.5	-0.9	692.0	0.4	-0.9	-7.4	0.1261	-0.3123	-12.2929	142.500	0.000
5	14	IPM1H05A	-0.7	-98.0	955.9	0.8	-0.8	-2.8	0.1604	0.2082	0.0350	142.500	6.075
5	14	IPM1H05B	-1.0	-69.5	691.9	1.1	-0.4	-2.9	0.1667	-0.0811	-12.2487	142.500	6.075