Jefferson Lab Alignment Group

Data Transmittal

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DETAILS: Data: Step2B\BSY\QW9C\111101a, 111101b

Below are the results from the Nov 1st survey carried out on the Compton laser table and photon detector. A +X is to the beam left from ideal, a +Y is up from ideal. The Z distances (a + value being downstream), is based on the ideal table center. Values are in millimeters. Note that the ideal Y coordinate for the main beam harp listed below is 570 millimeters above the photon line of the laser table.

LASER TABLE AREA	**Z**	**X**	**Y**
US BPM Upstream end	-765	0.4	2.3
US BPM Downstream end	-620	0.2	2.8
US Oval pipe		0.1	
US FC	-521	-0.1	3.1
US CV mirror	-412	-0.4	3.3
Main beam harp upstream end	-84	0.3	0.7
Main beam harp downstream end	16	0.9	0.6
DS CV mirror	412	1.1	3.3
DS FC	516	0.9	3.5
DS Oval pipe		0.7	
DS BPM upstream end	613	0.5	3.0
DS BPM downstream end	746	0.2	3.2

PHOTON DETECTOR	**Z**	**X**	**Y**
Top of support table			-112.3
Detector average CL	3564	-1.1	4.7
Detector top left	3565	29.8	34.6
Detector top right	3564	-29.8	36.0
Detector bottom left	3563	27.7	-26.4
Detector bottom right	3563	-32.1	-25.4

Front face of detector: Yaw angle is clockwise 0.309 deg. looking from above.
Pitch angle is clockwise 1.116 deg. looking from the beam right.
Roll angle is counter clockwise 2.096 deg. looking from upstream.