



Jefferson Lab Alignment Group

Data Transmittal

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Checked: rtm

: B1974

DETAILS:

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The following are the results of Bonus 3 detector installed during the week of July 13th, 2020. Both CEBAF Mechanical and Beam Following coordinates are shown. In the BFS, a positive X value is beam left, a positive Y is up and negative Z is upstream of the 12Gev Hall center. Angles are in degrees.

	IDEAL CEBAF			FOUND CEBAF		
	X[m]	Y[m]	Z[m]	X[m]	Y[m]	Z[m]
BONUS	-80.60000	103.35526	-398.82153	-80.59986	103.35519	-398.79093

	BFS			YAW(Ry)	PITCH(Rx)	ROLL(Rz)
	X[mm]	Y[mm]	Z[mm]			
BONUS	-0.140	-0.070	-30.600	-0.00057	-0.00315	0.00002

FMT Fiducial As-Founds in the Beam Following System

	BFS		
	X	Y	Z
F3_1	-149.88	-151.23	271.30
F3_2	-205.81	-55.61	270.87
F3_3	-213.40	-0.26	270.68
F3_4	-206.41	55.19	270.51
F3_5	-185.32	106.90	270.40
F3_6	-107.42	185.65	270.31
F3_7	151.13	153.04	270.96
F3_8	108.66	-183.82	271.97