



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** E. Pasyuk, B. Miller, S. Stepanyan

**DATE:** 02/14/2020

**FROM:** Elena Balan

**Checked:**

**# :** B1970

**DETAILS:**

data: Step2B\HALLB\Bonus\200211B

The Hall B bonus and FMT detectors were surveyed on February 11<sup>th</sup>, 2020. The data is presented in the Beam Following Coordinate system. In the BFS, a positive X value is beam left, a positive Y is up and positive Z is downstream. The angles are shown in right hand rule.

	IDEAL CEBAF			FOUND CEBAF		
	X[m]	Y[m]	Z[m]	X[m]	Y[m]	Z[m]
<b>BONUS</b>	-80.60000	103.35526	-398.82153	-80.60030	103.35559	-398.79130

	BFS			YAW(Ry)	PITCH(Rx)	ROLL(Rz)
	X[mm]	Y[mm]	Z[mm]			
<b>BONUS</b>	0.30	0.33	-30.23	0.0049	0.0106	0.0023

FMT_DETECTOR	BF		
	X[mm]	Y[mm]	Z[mm]
<b>F3_1</b>	-150.69	-150.13	275.56
<b>F3_2</b>	-206.56	-54.51	275.06
<b>F3_3</b>	-214.13	0.88	274.80
<b>F3_4</b>	-207.07	56.29	274.55
<b>F3_5</b>	-185.98	107.98	274.33
<b>F3_6</b>	-108.03	186.70	274.05
<b>F3_7</b>	150.45	154.00	274.46
<b>F3_8</b>	107.80	-182.87	275.96