



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** J. Butler, B. Wojtsekhowski

**DATE:** 11/09/2022

**FROM:** Elena Balan

**Checked:** rtm

**# :** A2057

**DETAILS:**

M:\align\DATA\Step2B\HALLA\GEn\_22\221108B  
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Below are the survey results of the Big Bite magnet (MBB36\_5) and big bite detector (DBB36\_5) positioned at 36.5 degrees, the SBS magnet (SBS22\_1) at 22.1 degrees, the HCAL detector (HCAL21\_6) at 21.6 degrees, and the two correctors (G22BL201 & G22BL202) surveyed on 7<sup>th</sup> November 2022. In a beam following coordinate system a + X is to the beam left, a + Y is above and a + Z is downstream of the ideal position.

	Beam Following (mm)			Rotations from Ideal (Degrees)		
	dx[mm]	dy [mm]	dz[mm]	RX(pitch)	RY(yaw)	RZ(roll)
G22BL201	-1.084	0.300	4.878	0.1518	0.4855	-0.2722
G22BL202	-0.983	2.153	4.599	0.2613	0.3530	-0.0605
Big Bite @36.5 deg.						
MBB36_5	0.872	-1.667	-5.066	-0.0172	0.0769	-0.0017
DBB36_5	22.004	8.399	83.129	0.2763	-0.2919	-0.2306
SBS @22.1 deg. & HCAL @21.6 deg.						
SBS22_1	-1.174	2.619	-3.611	-0.0123	0.0389	-0.0799
HCAL21_6	-0.726	-0.582	6.080	0.0745	-0.0059	-0.0040

