



# Jefferson Lab Alignment Group

## Data Transmittal

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**DATE:** 11/29/2021

**FROM:** Chris Gould

**Checked:** SEH

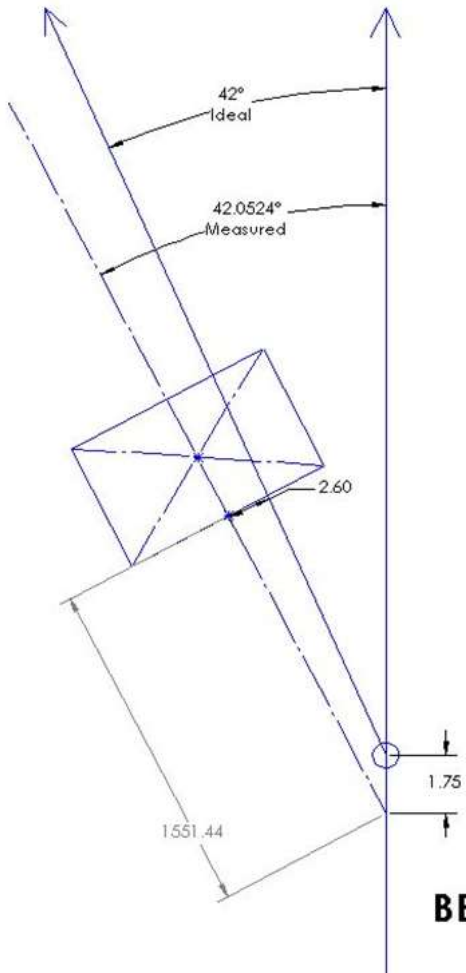
**# :** A2020

**DETAILS:**

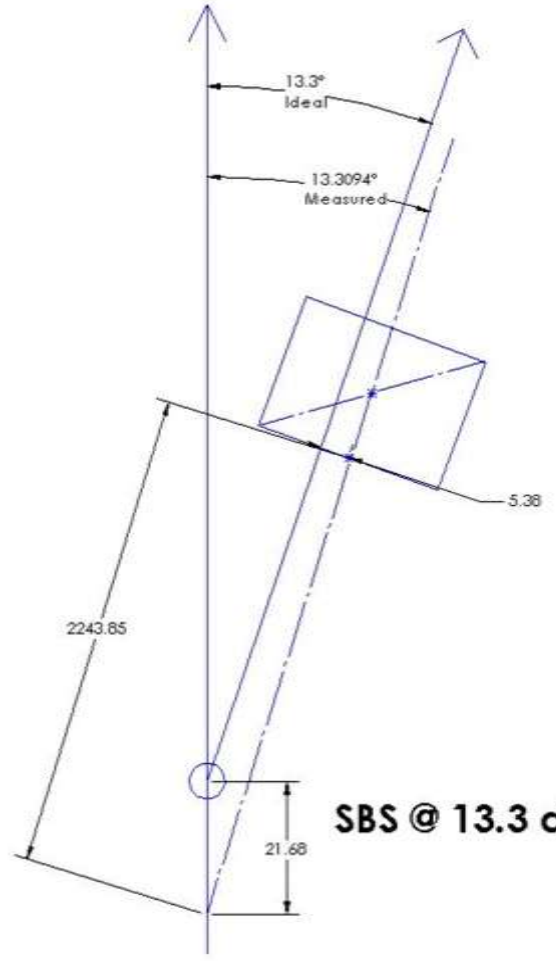
Step2B\HALLA\SBS\211123A, Step2B\HALLA\SBS\211124A, Step2B\HALLA\SBS\211124B

Below are the survey results of the Big Bite magnet positioned at 42 degrees and the SBS magnet and HCal detector positioned at 13.3 degrees. 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.

	Ideal Dist From Tgt (Meters)	Beam Following (mm)			Rotations From Ideal(Degrees)			
		X	Y	Z	RX(pitch)	RY(yaw)	RZ(roll)	
<b>Correctors</b>								
SBSCM01	2.105	0.68	-2.71	7.99	-0.3022	0.5333	-0.0410	
SBSCM02	3.999	-1.28	0.59	1.07	-0.1587	0.6657	0.0785	
<b>Big Bite @ 42 Deg.</b>								
BigBite Mag	1.550	2.60	-0.84	1.46	0.0562	0.0503	-0.0175	
BigBite Det	4.839	27.45	7.41	90.14	-0.2390	-0.2335	-0.2908	
<b>Super Big Bite</b>								
SBS Mag @13.3 Deg	2.250	-5.38	3.10	-6.17	0.0118	-0.0092	-0.008	
HCAL @ 13.3 Deg	14.500	0.55	-2.17	-1.68	-0.0902	0.0959	0.0321	



**BB @ 42 deg.**



**SBS @ 13.3 deg.**