



# Jefferson Lab Alignment Group

## Data Transmittal

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**DATE:** 02/02/2022

**FROM:** Chris Gould

**Checked:** SEH

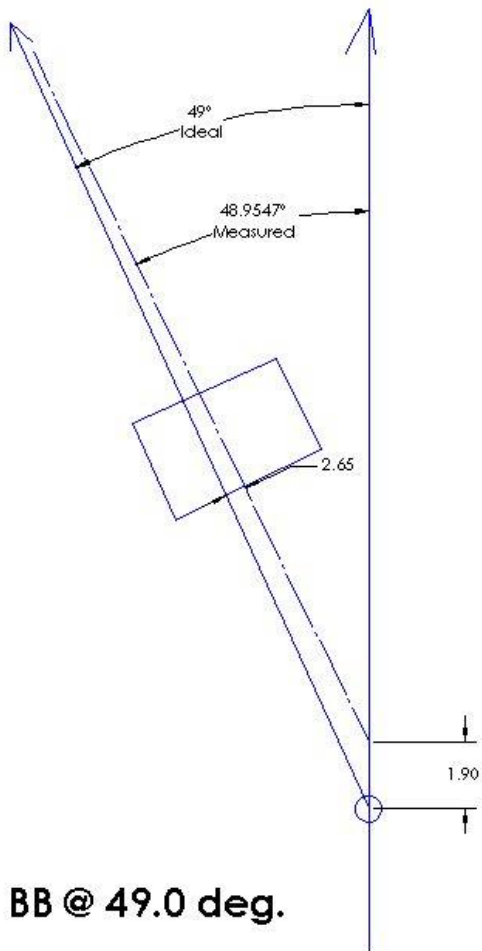
**# :** A2027

**DETAILS:**

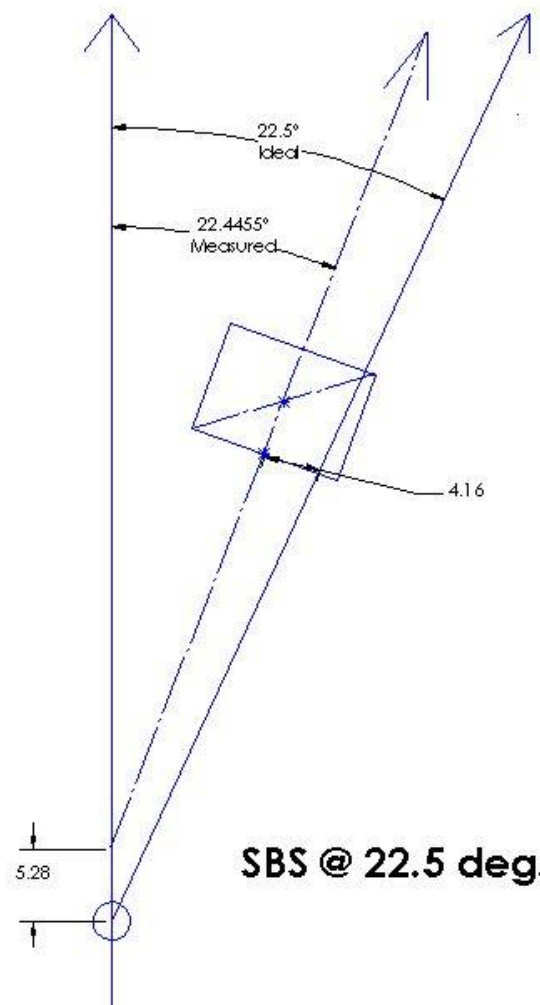
Step2B\HALLA\SBS\220201A,B,C,D

Below are the survey results of the Big Bite magnet positioned at 49 degrees and the SBS magnet at 22.5 deg and HCal detector positioned at 22.0 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	1.71	-2.77	11.07	-0.2833	0.6912	-0.0935	
SBSCM02	3.999	-0.46	0.71	3.66	-0.1891	0.6419	0.0155	
<b>Big Bite @ 49Deg.</b>								
BigBite Mag	1.550	-2.65	-1.09	0.00	0.0600	-0.0453	0.0188	
BigBite Det	4.839	12.73	-8.63	88.53	-0.2353	-0.3887	-0.2994	
<b>Super Big Bite</b>								
SBS Mag @22.5 Deg	2.250	4.16	6.31	1.20	0.0655	0.0545	-0.0293	
HCAL @ 22.0 Deg	11.000	-1.72	-0.29	-6.03	-0.096	0.1758	0.0234	



**BB @ 49.0 deg.**



**SBS @ 22.5 deg.**