



# Jefferson Lab Alignment Group

## Data Transmittal

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**FROM:** Chris Gould

**Checked:** SEH

**# :** A2012

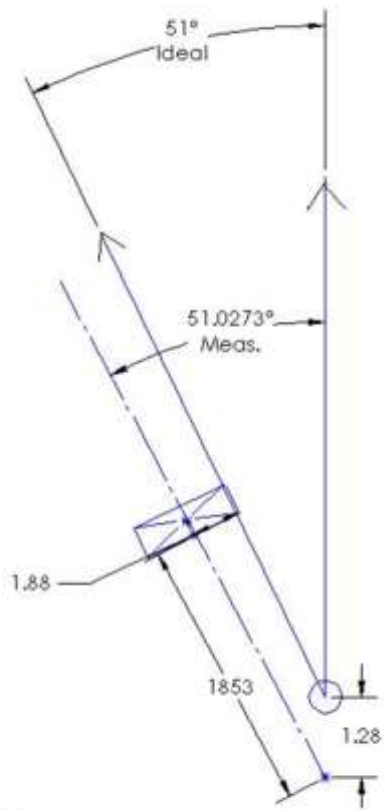
**DETAILS:** Step2B\HALLA\SBS\210930A, Step2B\HALLA\SBS\210930C, Step2B\HALLA\SBS\211005A, Step2B\HALLA\SieveSlits\21105A

Below are the survey results of the Big Bite magnet positioned at 51 degrees ,the SBS magnet at 33.5 degrees and HCal detector positioned at 34.5 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.

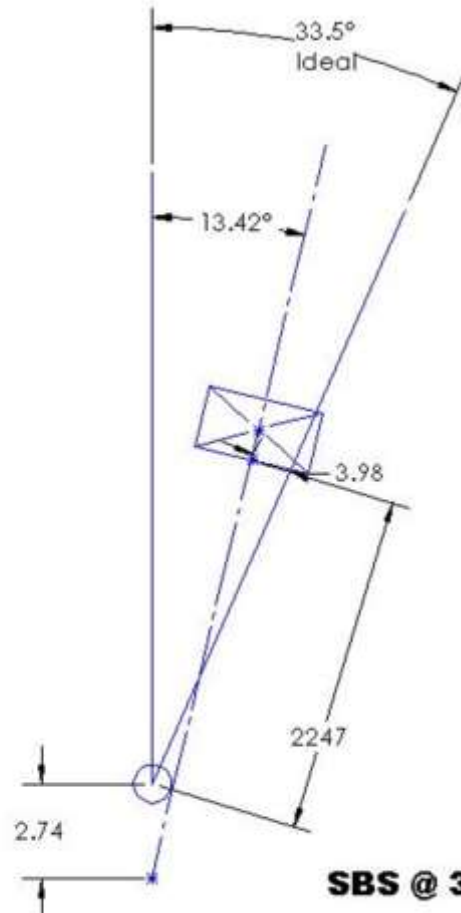
	Ideal Dist From Tgt (Meters)	Beam Following (mm)			Rotations From Ideal(Degrees)		
		X	Y	Z	RX(pitch)	RY(yaw)	RZ(roll)
<b>Correctors</b>							
SBSCM01	2.105	0.06	-3.80	13.52	-0.4068	0.6508	-0.0974
SBSCM02	3.999	0.18	-0.05	6.64	-0.2621	0.6368	0.0590
<b>Big Bite @ 51 Deg.</b>							
BigBite Mag	1.850	1.88	-2.30	1.80	-0.0132	0.0273	0.0250
BigBite Det	5.13920	22.59	8.13	92.79	-10.2205	-0.2965	-0.2582
<b>Super Big Bite</b>							
SBS Mag @33.5 Deg	2.250	3.98	1.84	-3.00	0.0150	0.1401	-0.1075
HCAL @ 34.5 Deg	13.500	-8.30	-3.60	-0.82	-0.0840	0.0137	-0.0032

	Relative To Ideal Big Bite Magnet @ 51 Deg		
	X	Y	Z
<b>Big Bite Sieve</b>			
Top BeamRight	-116.20	293.86	-387.04
Top BeamLeft	112.34	294.63	-387.55
Bot BeamRight	-114.59	-302.30	-388.90
Bottom BeamLeft	113.93	-301.58	-389.41
Center	-1.25	-3.81	-388.23

	Relative To the Big Bite Magnet center line		
	X	Y	Z
<b>Big Bite Sieve</b>			
Top BeamRight	-117.77	296.31	-388.83
Top BeamLeft	110.78	296.98	-389.23
Bot BeamRight	-116.41	-299.85	-390.83
Bottom BeamLeft	112.11	-299.23	-391.23
Center	-2.95	-1.41	-390.03



**BB @ 51 Deg.**



**SBS @ 33.5 Deg.**