



Jefferson Lab Alignment Group

Data Transmittal

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DETAILS:

Step2B\HALLA\SBS\2201006A,B,C &D

Below are the survey results of the Big Bite magnet positioned at 46.5 degrees and the SBS magnet and HCal detector positioned at 17.3 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.

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	Ideal Dist From Tgt (Meters)	Beam Following (mm)			Rotations From Ideal(Degrees)			
		X	Y	Z	RX(pitch)	RY(yaw)	RZ(roll)	
Correctors								
SBSCM01	2.105	1.42	-2.99	11.34	-0.32	0.6792	-0.0533	
SBSCM02	3.999	-1.93	0.54	3.74	-0.2177	0.6144	0.0287	
Big Bite @ 46.5Deg.								
BigBite Mag	1.850	-0.40	-2.45	-2.13	-0.0140	0.0006	-0.0123	
BigBite Det	5.139	15.34	7.73	88.08	-0.2312	-0.4720	-0.2664	
Super Big Bite								
SBS Mag @17.3 Deg	2.250	0.99	4.33	2.58	0.0178	0.1403	-0.0304	
HCal @ 17.3 Deg	14.000	-5.36	-2.09	-6.66	-0.1266	0.0959	0.063	

