



Jefferson Lab Alignment Group

Data Transmittal

TO: J. Butler, B. Wojtsekhowski, H. Szumila-Vance, A. Puckett

DATE: 10/19/2021

FROM: Chris Gould

Checked: SEH

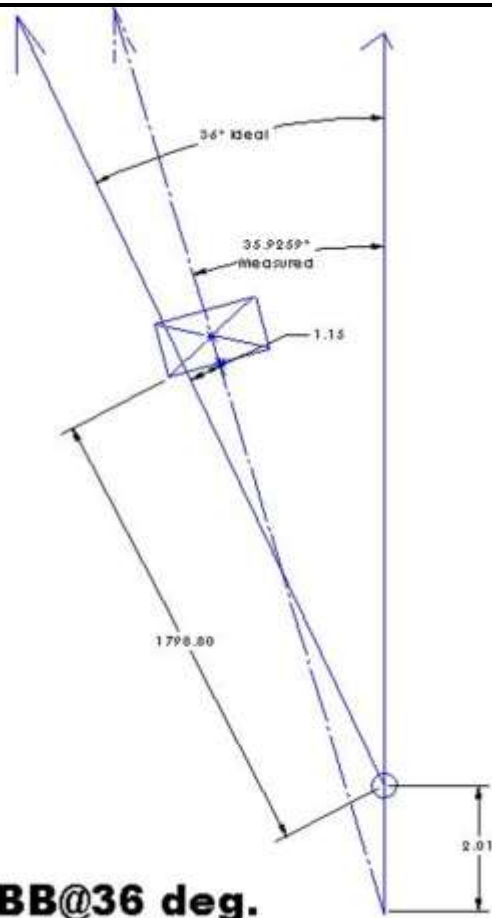
: A2013

DETAILS:

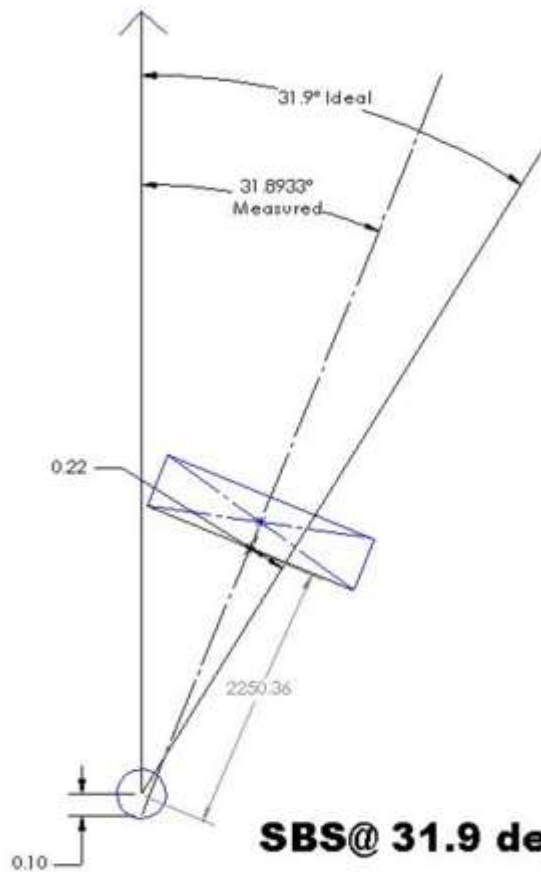
Step2B\HALLA\SBS\211018A, \Step2B\HALLA\SBS\211018B Step2B\HALLA\SBS\211019A

Below are the survey results of the Big Bite magnet positioned at 36 degrees and the SBS magnet and HCal detector positioned at 31.9 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)	
Correctors								
SBSCM01	2.105	-1.27	-3.09	12.23	-0.3868	0.5225	-0.1188	
SBSCM02	3.999	-0.51	0.49	5.64	-0.2336	0.6631	0.0589	
Big Bite @ 36 Deg.								
BigBite Mag	1.800	-1.15	-1.61	-1.20	-0.0039	-0.0741	-0.0060	
BigBite Det	5.0892	12.68	9.39	88.71	-10.2475	-0.4271	-0.2939	
Super Big Bite								
SBS Mag @31.9 Deg	2.250	0.22	3.71	0.36	-0.0022	0.0067	-0.0385	
HCAL @ 31.9 Deg	11.000	3.90	1.88	-3.74	-0.0682	-0.1105	0.0335	



BB@36 deg.



SBS@ 31.9 deg.