

z25\_raw

/home/jixie/DISK/work/A1N/mapping/12.5deg\_HB7.5\_19\_10\_19/HB\_BxBz\_z25gauss\_VL8.7\_VS6.0/result\_with\_bg\_n\_rot.txt range= B3:H20

I\_VL= 8.7 I\_VS= 6 I\_HS= 0.0 I\_HL= 0.0

Position (cm)			Measured Field (G)				Predicted Field (G)				Predicted - Measured			
xx	yy	zz	B	Bx	By	+Bz	Bx_p	Bx_p	By_p	Bz_p	dB	dBx	dBBy	dBz
0	-0.07	19.95	26.539	-1.038	-0.240	26.518	26.462	-0.985	-0.479	26.439	0.257	0.053	-0.239	-0.079
0	-0.06	17.95	26.397	-1.016	-0.244	26.376	26.315	-0.992	-0.519	26.291	0.289	0.024	-0.275	-0.085
0	0.01	-3.05	26.197	-0.935	-0.592	26.173	26.116	-0.984	-0.890	26.082	0.316	-0.049	-0.298	-0.091
0	0.02	-5.05	26.213	-0.936	-0.628	26.189	26.185	-0.984	-0.955	26.149	0.333	-0.048	-0.327	-0.040
0	0.06	-18.1	26.654	-1.007	-0.316	26.633	26.596	-1.093	-0.659	26.566	0.360	-0.086	-0.343	-0.067
0	0.07	-20.1	26.748	-0.994	-0.231	26.729	26.708	-1.029	-0.502	26.683	0.277	-0.035	-0.271	-0.046
0	1.93	19.95	26.569	-1.000	-0.295	26.549	26.541	-0.956	-0.625	26.516	0.334	0.044	-0.330	-0.033
0	1.94	17.95	26.464	-1.000	-0.340	26.443	26.437	-0.951	-0.678	26.411	0.343	0.049	-0.338	-0.032
0	2.01	-3.05	26.191	-0.935	-0.573	26.168	26.120	-0.954	-0.841	26.089	0.280	-0.019	-0.268	-0.079
0	2.02	-5.05	26.177	-0.939	-0.569	26.154	26.178	-0.936	-0.839	26.148	0.270	0.003	-0.270	-0.006
0	2.06	-18.1	26.548	-1.012	-0.221	26.528	26.520	-1.079	-0.524	26.492	0.313	-0.067	-0.303	-0.036
0	2.07	-20.1	26.656	-0.966	-0.071	26.639	26.566	-1.057	-0.341	26.543	0.301	-0.091	-0.270	-0.096
2	-0.07	19.95	26.513	-1.007	-0.210	26.493	26.493	-0.902	-0.366	26.475	0.189	0.105	-0.156	-0.018
2	-0.06	17.95	26.412	-0.967	-0.257	26.393	26.412	-0.933	-0.474	26.391	0.219	0.034	-0.217	-0.002
2	0.01	-3.05	26.200	-0.958	-0.571	26.176	26.156	-0.973	-0.875	26.123	0.309	-0.015	-0.304	-0.053
2	0.02	-5.05	26.235	-0.956	-0.623	26.210	26.225	-0.962	-0.874	26.193	0.252	-0.006	-0.251	-0.017
2	0.06	-18.1	26.673	-1.022	-0.257	26.653	26.624	-1.065	-0.539	26.597	0.290	-0.043	-0.282	-0.056
2	0.07	-20.1	26.760	-0.983	-0.148	26.741	26.680	-1.051	-0.381	26.656	0.257	-0.068	-0.233	-0.085

Note: position (x, y, z) and field (Bx,By,Bz) are already flipped to Lab frame. (0,0,0) is the pivot.

will apply these offsets correction-->

Mean:	0.283	-0.009	-0.279	-0.049
Sigma:	0.044	0.054	0.047	0.030

Names	Values
Range	0.397
Mean	-0.375
Slope+	0.016
Slope-	-0.026

z25\_raw

/home/jixie/DISK/work/A1N/mapping/12.5deg\_HB7.5\_19\_10\_19/HB\_VL6.4\_VS4.2\_BxBz\_z25gauss/result\_with\_bg\_n\_rot.txt range= B3:H20

I\_VL= 6.4 I\_VS= 4.2 I\_HS= 0.0 I\_HL= 0.0

Position (cm)			Measured Field (G)				Predicted Field (G)				Predicted - Measured			
xx	yy	zz	B	Bx	By	+Bz	Bx_p	Bx_p	By_p	Bz_p	dB	dBx	dBBy	dBz
0	-0.07	19.95	26.539	-1.038	-0.240	26.518	26.089	-0.973	-0.033	26.071	0.496	0.065	0.207	-0.447
0	-0.06	17.95	26.397	-1.016	-0.244	26.376	25.961	-0.977	-0.117	25.942	0.454	0.039	0.127	-0.434
0	0.01	-3.05	26.197	-0.935	-0.592	26.173	25.843	-0.962	-0.772	25.813	0.403	-0.027	-0.180	-0.360
0	0.02	-5.05	26.213	-0.936	-0.628	26.189	25.897	-0.956	-0.861	25.865	0.400	-0.020	-0.233	-0.324
0	0.06	-18.1	26.654	-1.007	-0.316	26.633	26.250	-1.062	-0.754	26.217	0.606	-0.055	-0.438	-0.416
0	0.07	-20.1	26.748	-0.994	-0.231	26.729	26.350	-1.010	-0.648	26.323	0.582	-0.016	-0.417	-0.406
0	1.93	19.95	26.569	-1.000	-0.295	26.549	26.193	-0.946	-0.154	26.175	0.403	0.054	0.141	-0.374
0	1.94	17.95	26.464	-1.000	-0.340	26.443	26.100	-0.939	-0.245	26.082	0.379	0.061	0.095	-0.361
0	2.01	-3.05	26.191	-0.935	-0.573	26.168	25.866	-0.940	-0.728	25.839	0.364	-0.005	-0.155	-0.329
0	2.02	-5.05	26.177	-0.939	-0.569	26.154	25.924	-0.919	-0.757	25.896	0.320	0.020	-0.188	-0.258
0	2.06	-18.1	26.548	-1.012	-0.221	26.528	26.228	-1.047	-0.628	26.200	0.524	-0.035	-0.407	-0.328
0	2.07	-20.1	26.656	-0.966	-0.071	26.639	26.253	-1.035	-0.504	26.227	0.601	-0.069	-0.433	-0.412
2	-0.07	19.95	26.513	-1.007	-0.210	26.493	26.104	-0.912	0.050	26.089	0.490	0.095	0.260	-0.404
2	-0.06	17.95	26.412	-0.967	-0.257	26.393	26.051	-0.929	-0.072	26.034	0.405	0.038	0.185	-0.359
2	0.01	-3.05	26.200	-0.958	-0.571	26.176	25.878	-0.956	-0.753	25.849	0.374	0.002	-0.182	-0.327
2	0.02	-5.05	26.235	-0.956	-0.623	26.210	25.943	-0.941	-0.787	25.914	0.339	0.015	-0.164	-0.296
2	0.06	-18.1	26.673	-1.022	-0.257	26.653	26.278	-1.042	-0.647	26.250	0.561	-0.020	-0.390	-0.403
2	0.07	-20.1	26.760	-0.983	-0.148	26.741	26.328	-1.030	-0.527	26.303	0.581	-0.047	-0.379	-0.438

Note: position (x, y, z) and field (Bx,By,Bz) are already flipped to Lab frame. (0,0,0) is the pivot.

<b>Mean:</b>	<b>0.389</b>	<b>0.008</b>	<b>-0.128</b>	<b>-0.367</b>
<b>Sigma:</b>	<b>0.096</b>	<b>0.046</b>	<b>0.248</b>	<b>0.053</b>

Names	Values
Range	0.397
Mean	-0.375
Slope+	0.016
Slope-	-0.026

/home/jixie/DISK/work/A1N/mapping/12.5deg\_HB7.5\_19\_10\_19/HB\_BxBz\_z-25gauss\_VL8.7\_VS5.9/result\_with\_bg\_n\_rot.txt range= B3:H20

I\_VL= 8.7 I\_VS= 5.9 I\_HS= 0.0 I\_HL= 0.0

Position (cm)			Measured Field (G)				Predicted Field (G)				Predicted - Measured			
xx	yy	zz	B	Bx	By	+Bz	Bx_p	Bx_p	By_p	Bz_p	dB	dBx	dBBy	dBz
0	-0.07	19.95	25.477	0.488	-0.194	-25.472	25.391	0.496	-0.259	-25.384	0.110	0.008	-0.065	0.088
0	-0.06	17.95	25.483	0.454	-0.201	-25.478	25.438	0.488	-0.265	-25.432	0.086	0.034	-0.064	0.046
0	0.01	-3.05	25.470	0.383	-0.397	-25.464	25.444	0.385	-0.470	-25.437	0.078	0.002	-0.073	0.027
0	0.02	-5.05	25.447	0.369	-0.352	-25.442	25.383	0.339	-0.434	-25.377	0.109	-0.030	-0.082	0.065
0	0.06	-18.1	25.295	0.444	-0.077	-25.291	25.264	0.394	-0.229	-25.260	0.163	-0.050	-0.152	0.031
0	0.07	-20.1	25.293	0.416	-0.033	-25.289	25.285	0.396	-0.103	-25.281	0.073	-0.020	-0.070	0.008
0	1.93	19.95	25.430	0.524	-0.204	-25.424	25.291	0.565	-0.363	-25.282	0.218	0.041	-0.159	0.142
0	1.94	17.95	25.447	0.508	-0.282	-25.440	25.326	0.531	-0.423	-25.317	0.189	0.023	-0.141	0.123
0	2.01	-3.05	25.505	0.419	-0.417	-25.498	25.486	0.432	-0.540	-25.476	0.126	0.013	-0.123	0.022
0	2.02	-5.05	25.466	0.406	-0.342	-25.460	25.441	0.399	-0.478	-25.433	0.139	-0.007	-0.136	0.027
0	2.06	-18.1	25.392	0.453	-0.083	-25.388	25.373	0.391	-0.273	-25.369	0.200	-0.062	-0.190	0.019
0	2.07	-20.1	25.379	0.441	-0.005	-25.375	25.386	0.379	-0.098	-25.383	0.112	-0.062	-0.093	-0.008
2	-0.07	19.95	25.444	0.490	-0.136	-25.439	25.337	0.545	-0.171	-25.331	0.126	0.055	-0.035	0.108
2	-0.06	17.95	25.471	0.451	-0.202	-25.466	25.375	0.465	-0.246	-25.370	0.107	0.014	-0.044	0.096
2	0.01	-3.05	25.485	0.375	-0.406	-25.479	25.464	0.359	-0.510	-25.457	0.108	-0.016	-0.104	0.022
2	0.02	-5.05	25.442	0.364	-0.362	-25.437	25.399	0.351	-0.420	-25.393	0.074	-0.013	-0.058	0.044
2	0.06	-18.1	25.300	0.384	-0.150	-25.297	25.260	0.390	-0.200	-25.257	0.064	0.006	-0.050	0.040
2	0.07	-20.1	25.297	0.358	-0.031	-25.294	25.313	0.335	-0.139	-25.310	0.111	-0.023	-0.108	-0.016

Note: position (x, y, z) and field (Bx,By,Bz) are already flipped to Lab frame. (0,0,0) is the pivot.

will apply these offsets correction-->

Mean:	0.110	-0.004	-0.096	0.053
Sigma:	0.045	0.033	0.045	0.045

Names	Values
Range	0.364
Mean	-0.209
Slope+	0.006
Slope-	-0.021