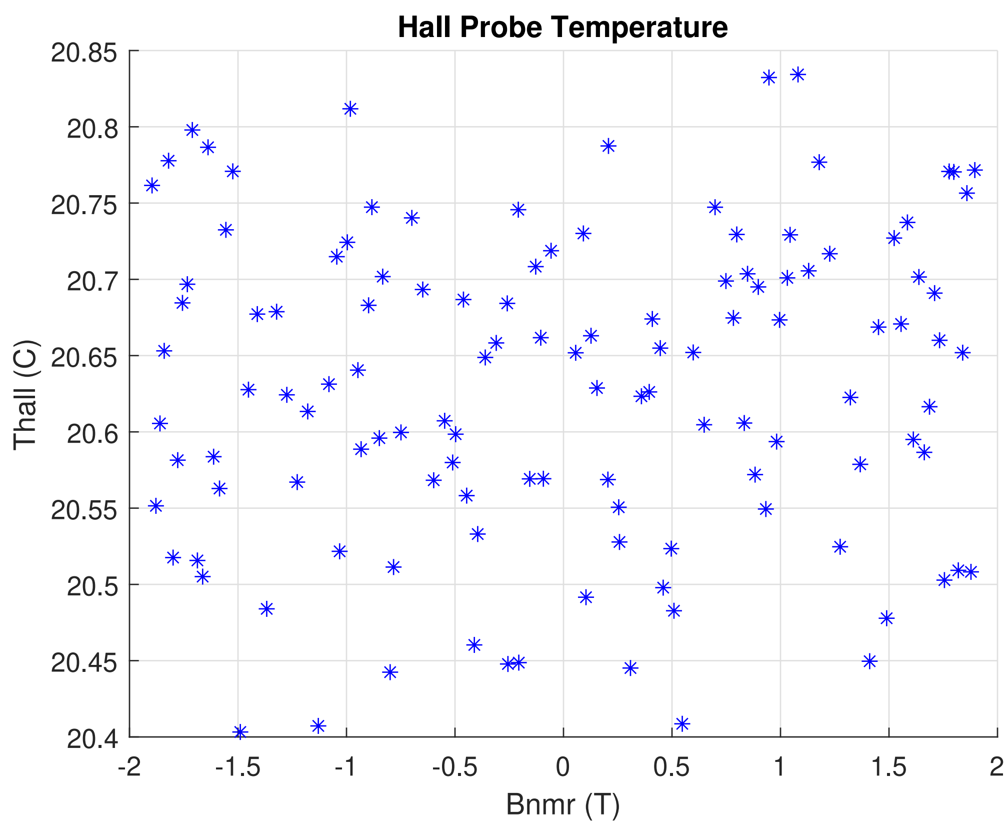
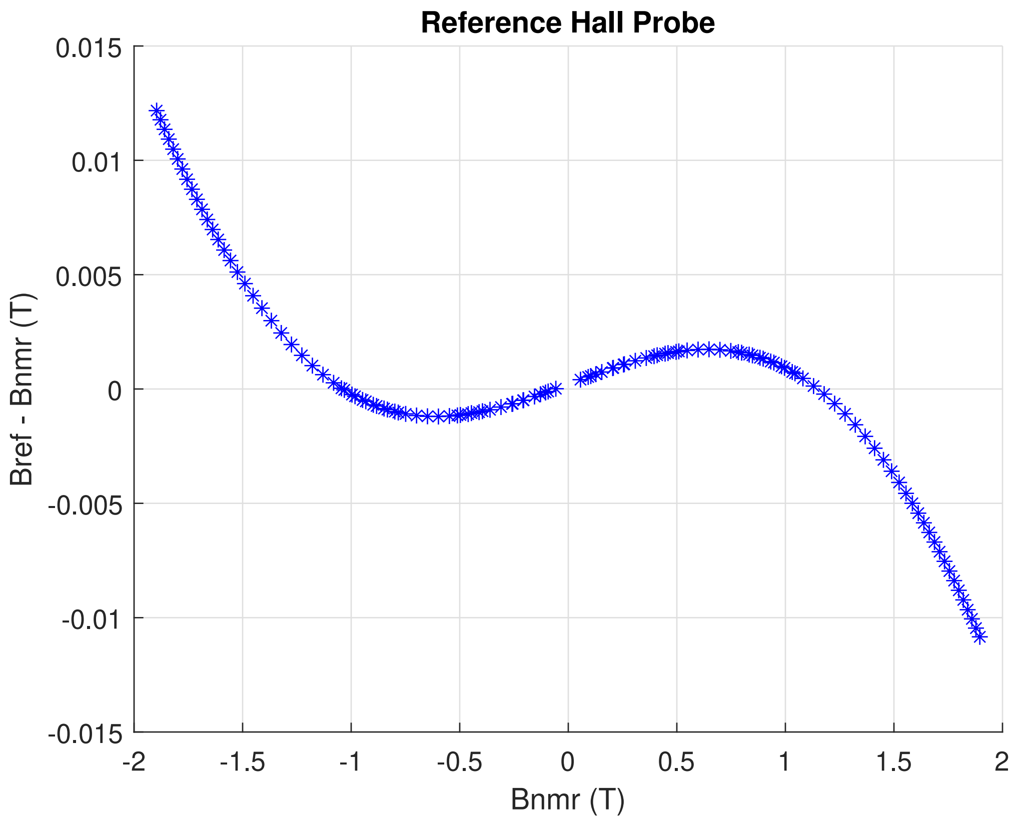
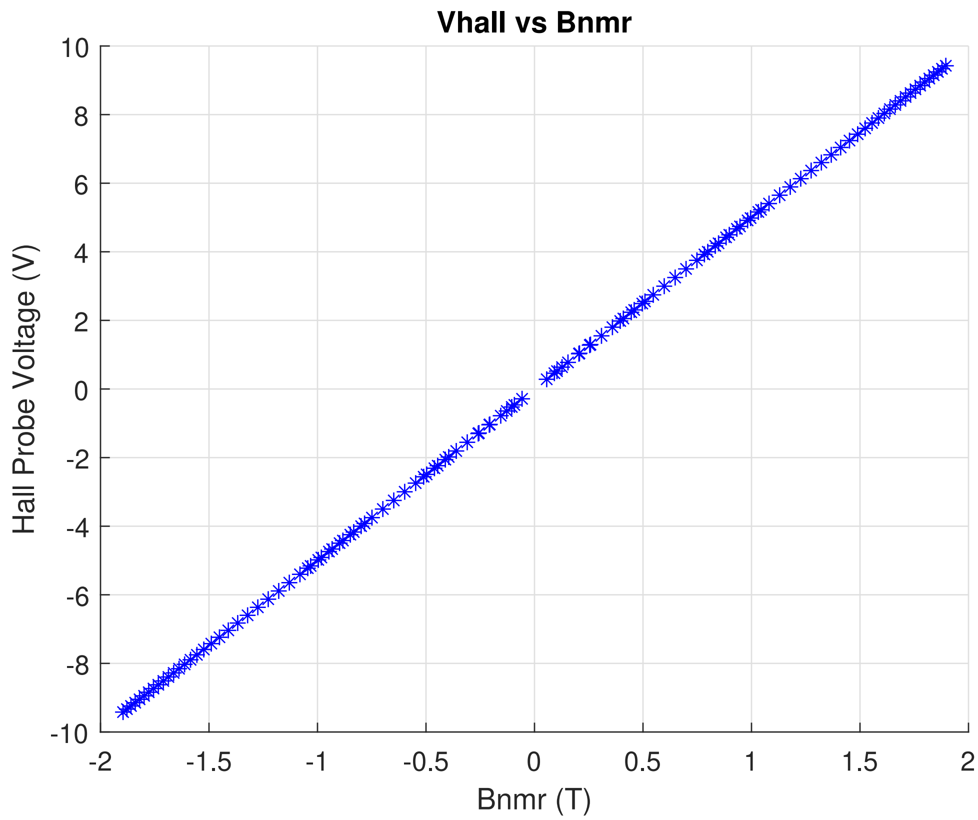
SLAC Magnetic Measurements#
Date: 02-07-2023#
Time: 14:45:07#

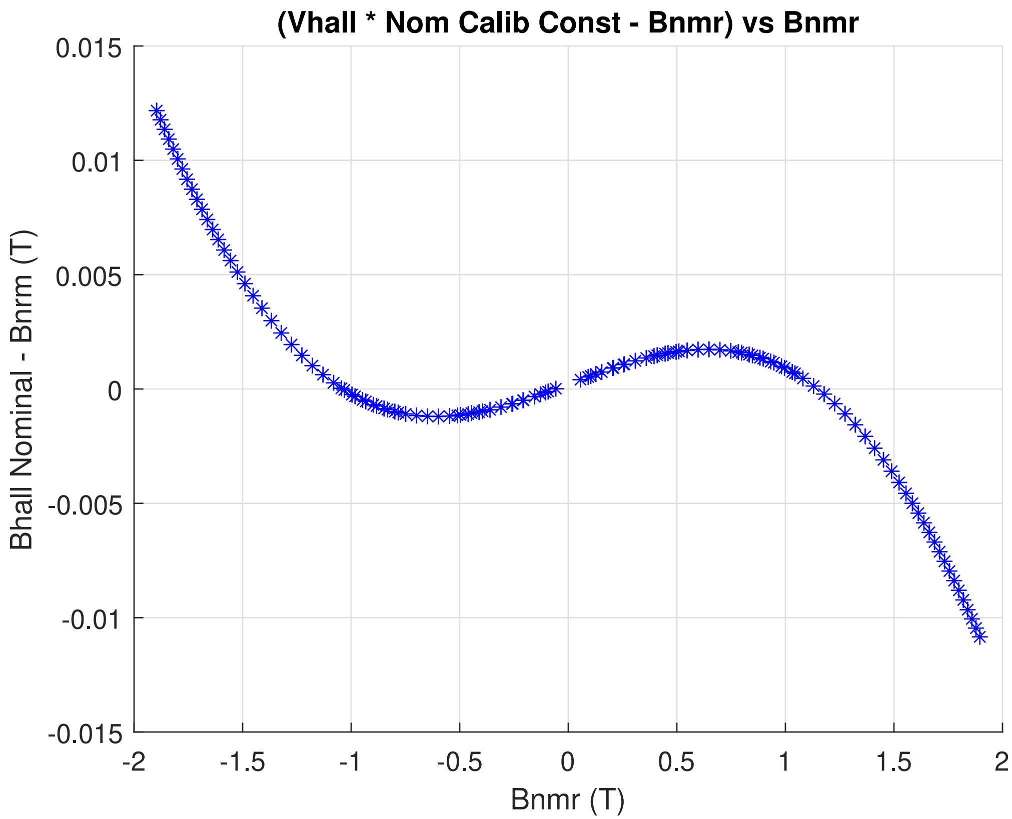


Hall Probe Temperature
20.85
20.8
20.75
20.7
20.65
20.6
20.55
20.5
20.45
20.4
Thall (C)
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
Bnmr (T)

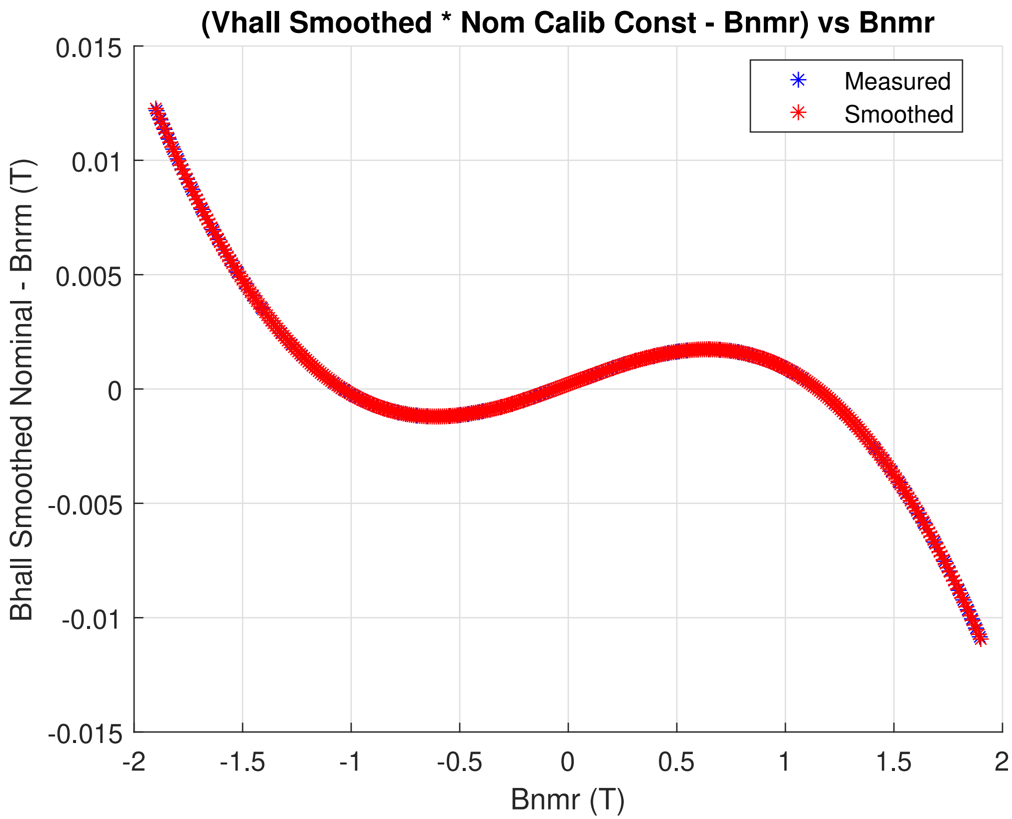


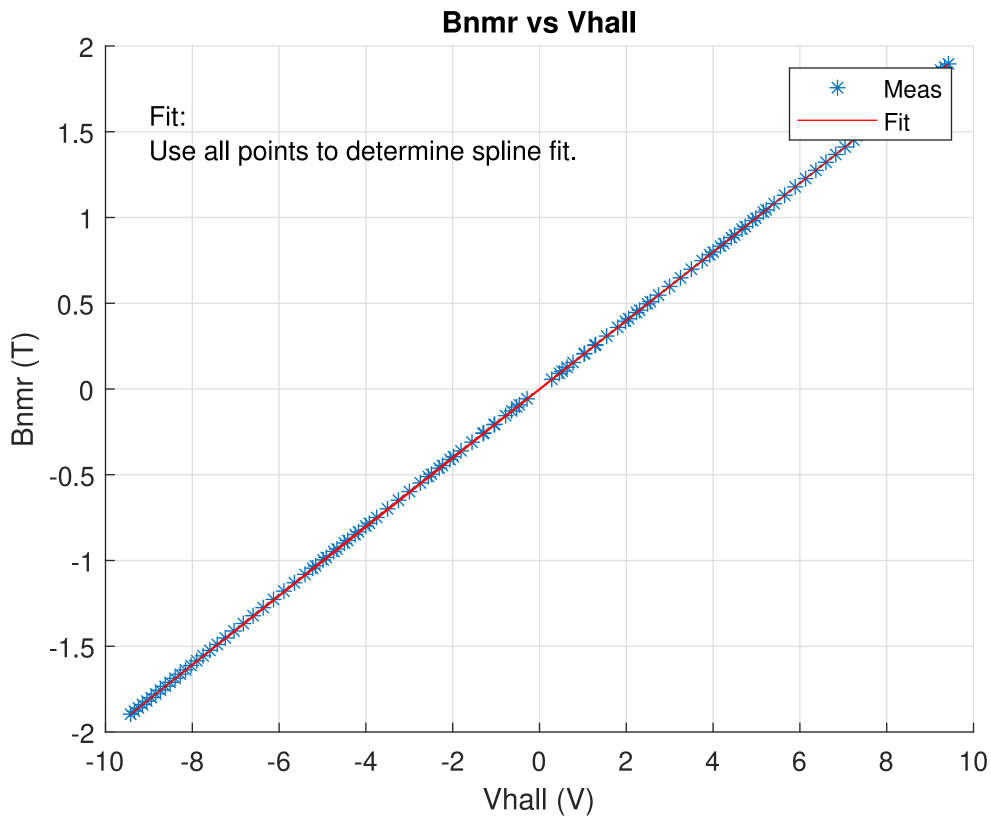
Reference Hall Probe
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
Bref - Bnmr (T)
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
Bnmr (T)

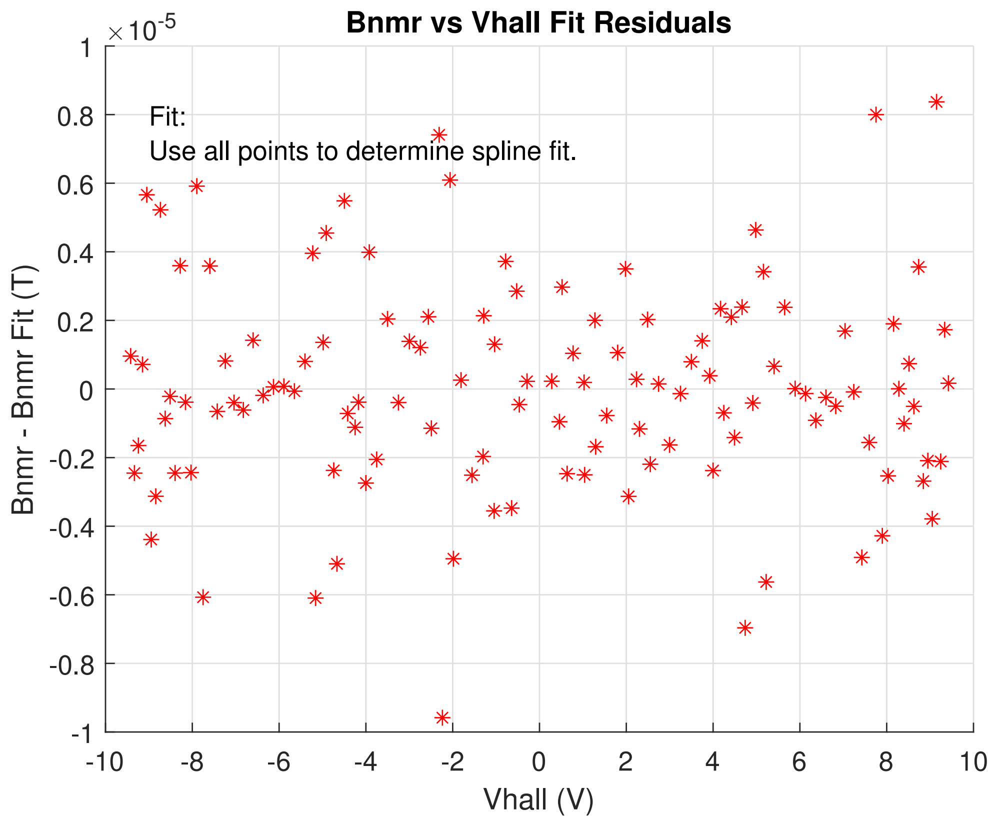

Vhall vs Bnmr
Hall Probe Voltage (V)
Bnmr (T)
10
8
6
4
2
0
-2
-4
-6
-8
-10
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2



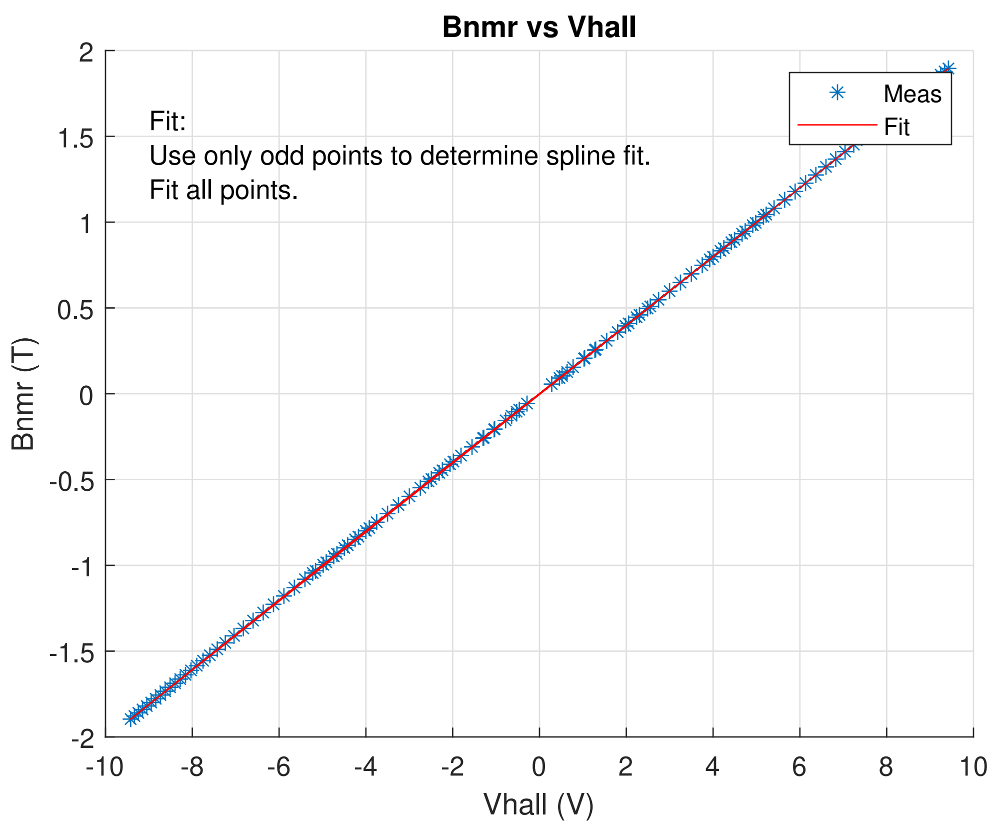
(Vhall * Nom Calib Const - Bnmr) vs Bnmr
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
Bhall Nominal - Bnrm (T)
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
Bnmr (T)

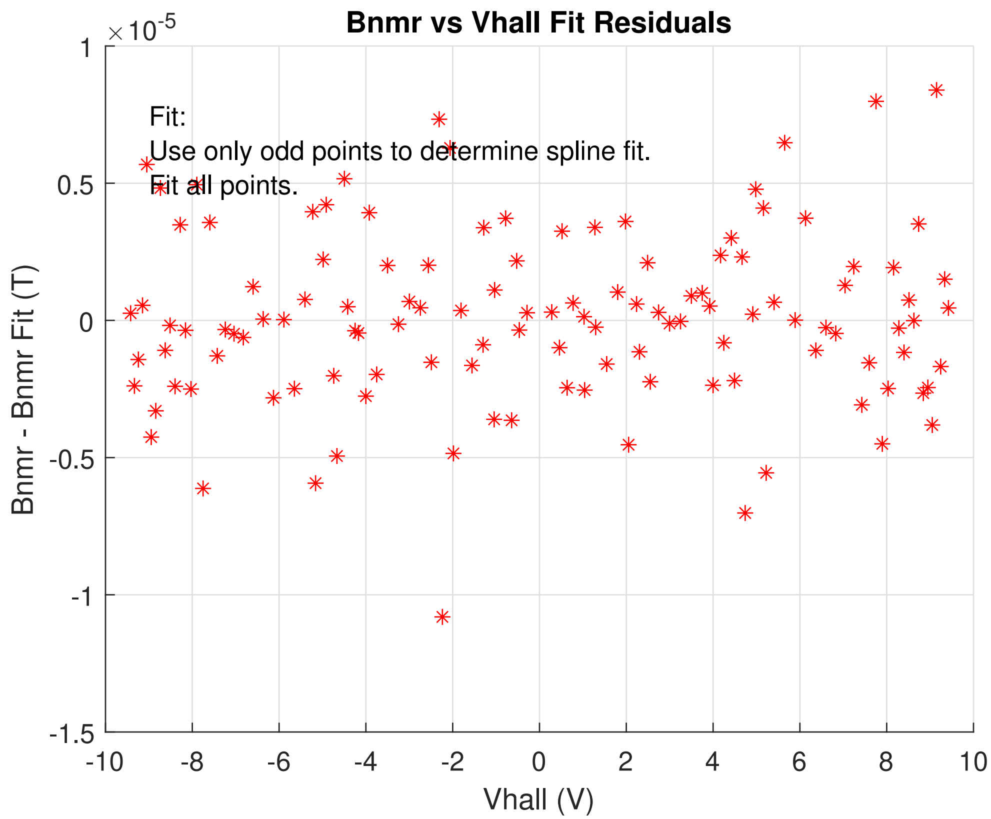

(Vhall Smoothed * Nom Calib Const - Bnmr) vs Bnmr
Measured
Smoothed
Bhall Smoothed Nominal - Bnrm (T)
Bnmr (T)
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2


Bnmr vs Vhall
Fit:
Use all points to determine spline fit.
Meas
Fit
Bnmr (T)
Vhall (V)
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-10
-8
-6
-4
-2
0
2
4
6
8
10



Bnmr vs Vhall Fit Residuals
×10^-5
Fit:
Use all points to determine spline fit.
Bnmr - Bnmr Fit (T)
Vhall (V)
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-10
-8
-6
-4
-2
0
2
4
6
8
10


Bnmr vs Vhall
Fit:
Use only odd points to determine spline fit.
Fit all points.
Meas
Fit
Bnmr (T)
Vhall (V)
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-10
-8
-6
-4
-2
0
2
4
6
8
10


Bnmr vs Vhall Fit Residuals
×10^-5
1
0.5
0
-0.5
-1
-1.5
Fit:
Use only odd points to determine spline fit.
Fit all points.
-10
-8
-6
-4
-2
0
2
4
6
8
10
Vhall (V)
Bnmr - Bnmr Fit (T)