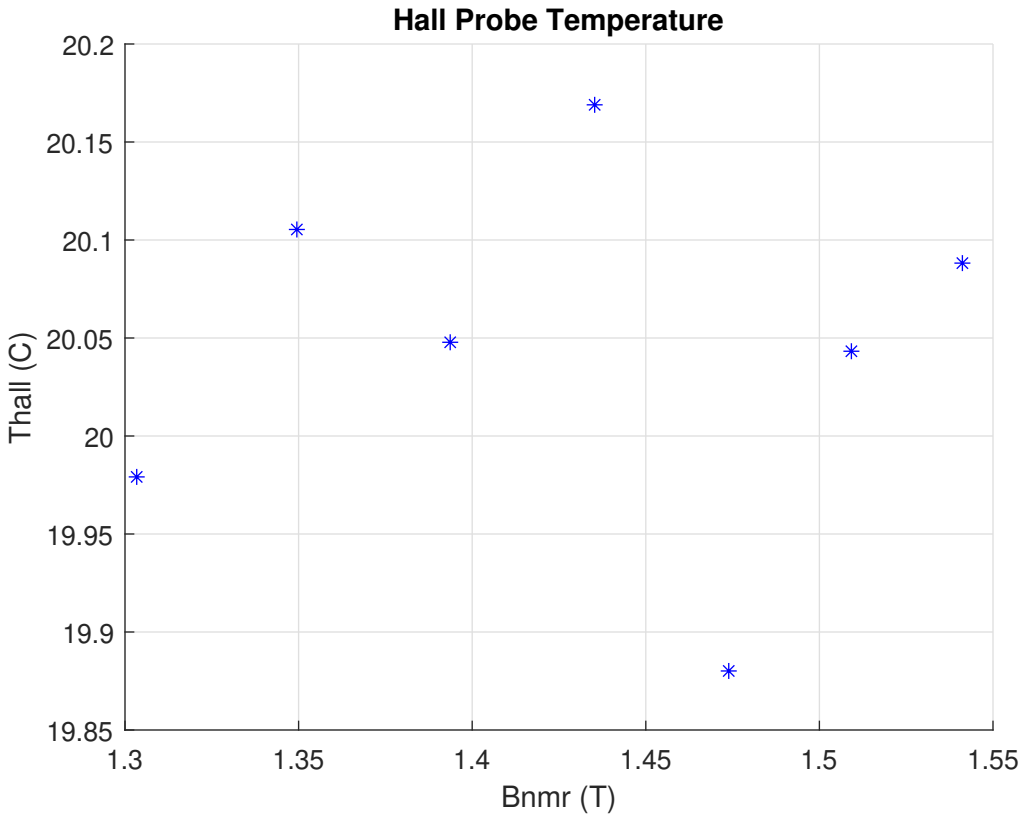
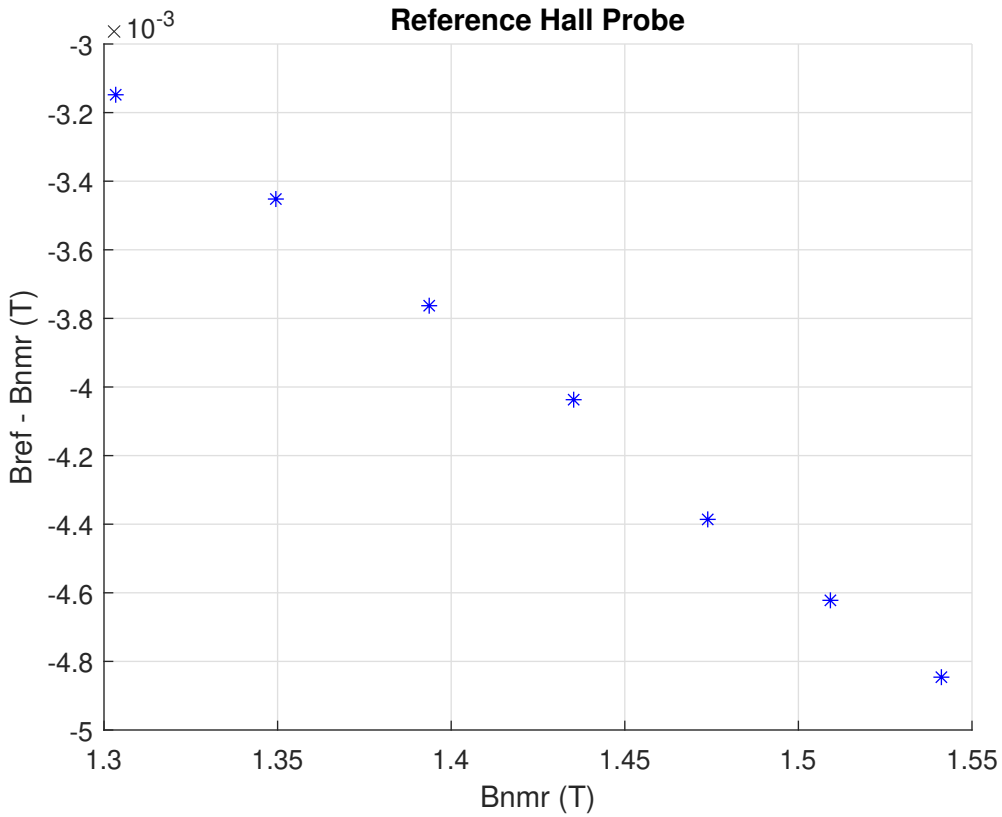
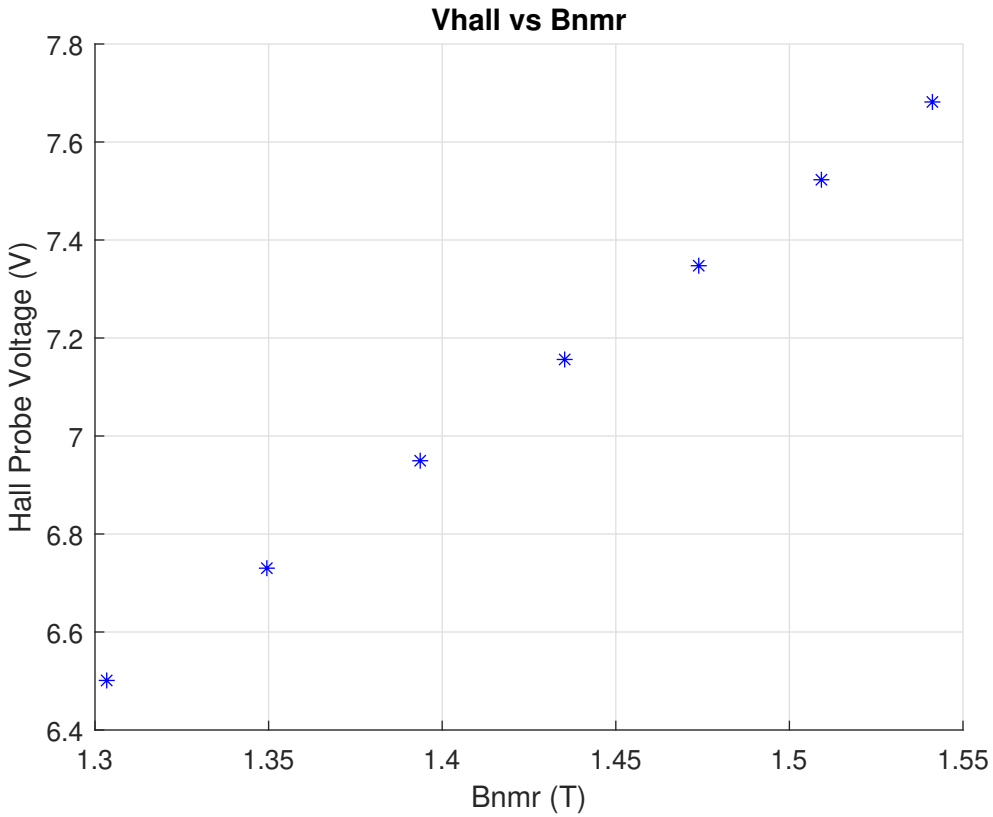
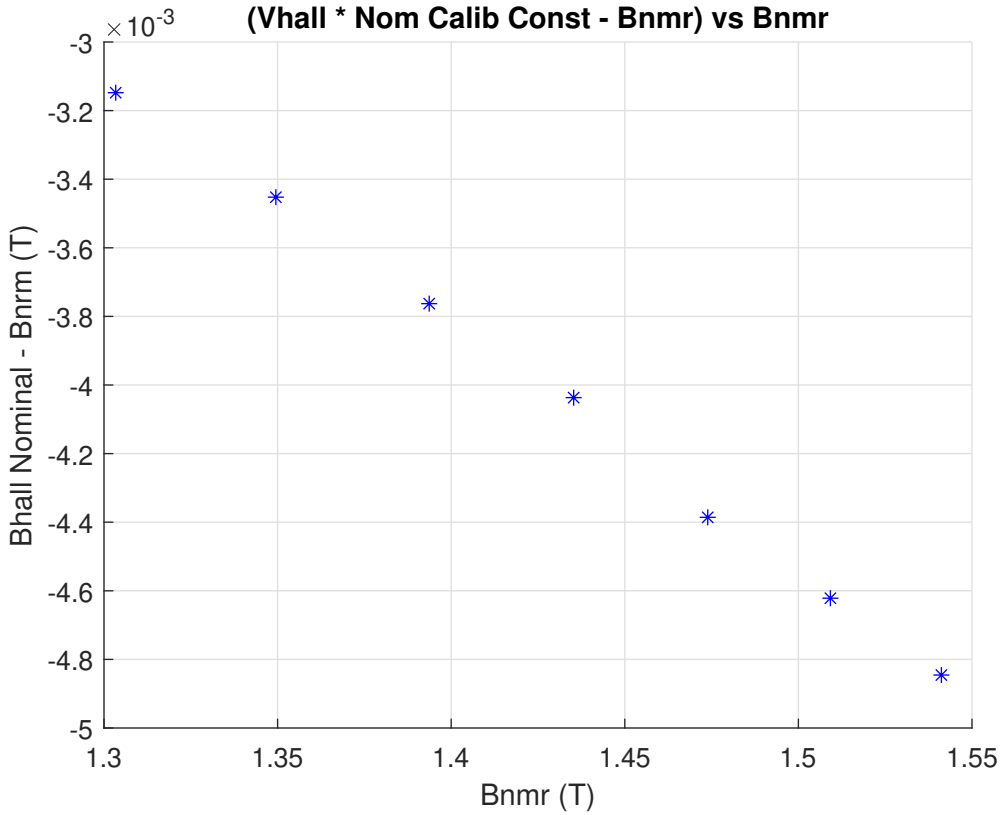
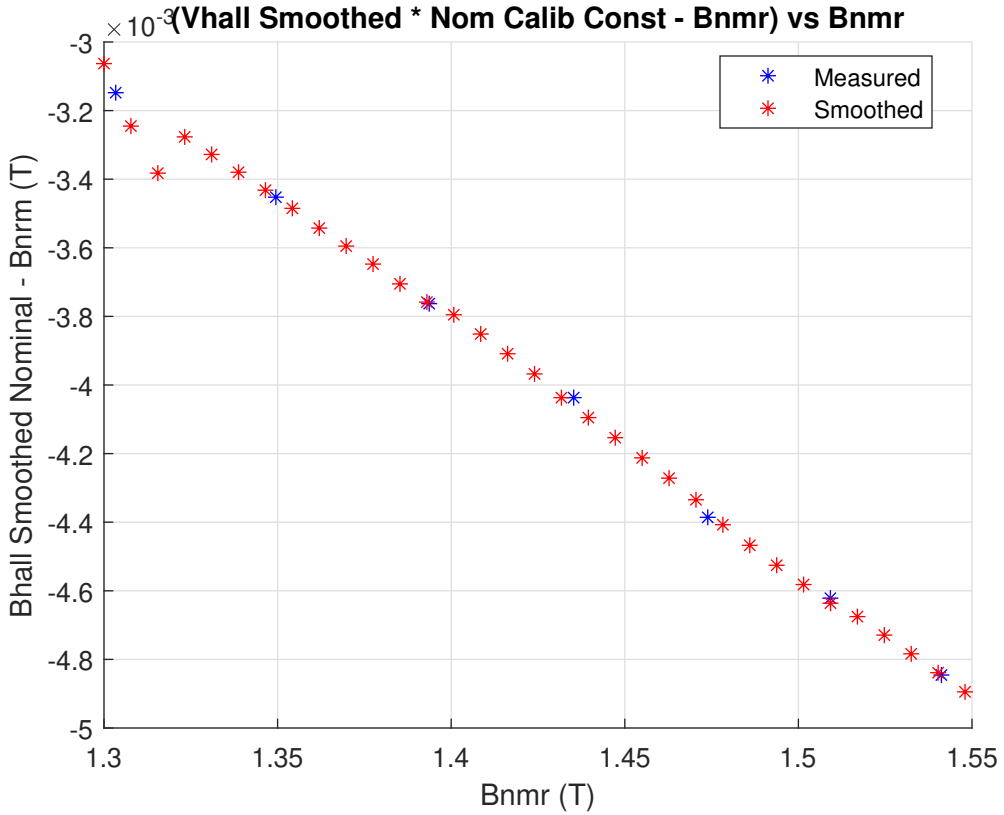
SLAC Magnetic Measurements#
Date: 11-10-2023#
Time: 10:54:52#

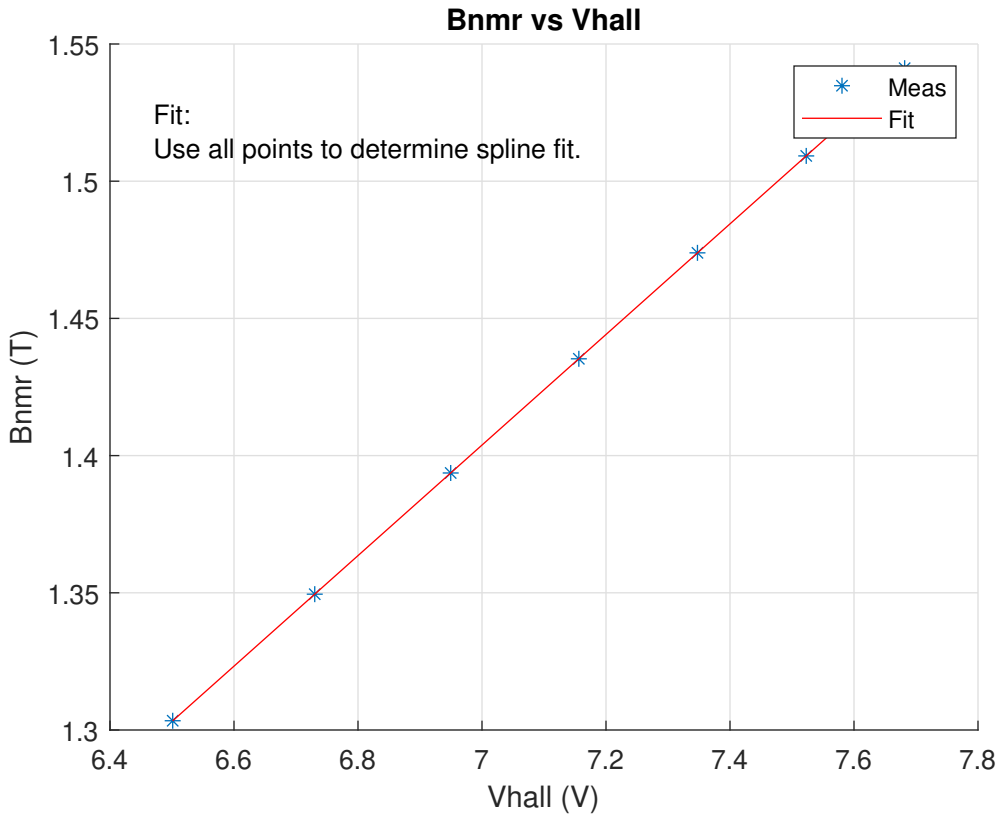

Hall Probe Temperature
20.2
20.15
20.1
20.05
20
19.95
19.9
19.85
Thall (C)
1.3
1.35
1.4
1.45
1.5
1.55
Bnmr (T)

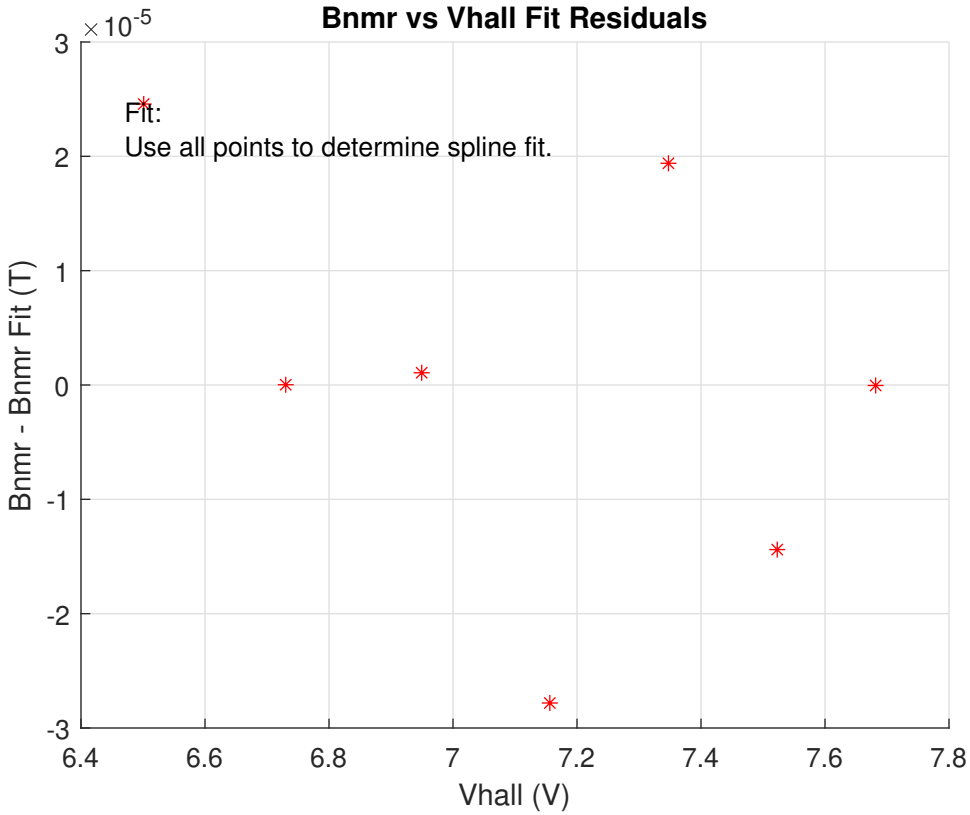

Reference Hall Probe
×10-3
-3
-3.2
-3.4
-3.6
-3.8
-4
-4.2
-4.4
-4.6
-4.8
-5
Bref - Bnmr (T)
1.3
1.35
1.4
1.45
1.5
1.55
Bnmr (T)


Vhall vs Bnmr
Hall Probe Voltage (V)
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4
1.3
1.35
1.4
1.45
1.5
1.55
Bnmr (T)


(Vhall * Nom Calib Const - Bnmr) vs Bnmr
×10^-3
-3
-3.2
-3.4
-3.6
-3.8
-4
-4.2
-4.4
-4.6
-4.8
-5
Bhall Nominal - Bnrm (T)
1.3
1.35
1.4
1.45
1.5
1.55
Bnmr (T)


(Vhall Smoothed * Nom Calib Const - Bnmr) vs Bnmr
×10^-3
-3
-3.2
-3.4
-3.6
-3.8
-4
-4.2
-4.4
-4.6
-4.8
-5
Bhall Smoothed Nominal - Bnrm (T)
1.3
1.35
1.4
1.45
1.5
1.55
Bnmr (T)
Measured
Smoothed


Bnmr vs Vhall
Fit:
Use all points to determine spline fit.
Meas
Fit
Bnmr (T)
Vhall (V)
1.55
1.5
1.45
1.4
1.35
1.3
6.4
6.6
6.8
7
7.2
7.4
7.6
7.8


Bnmr vs Vhall Fit Residuals
×10-5
3
2
1
0
-1
-2
-3
Fit:
Use all points to determine spline fit.
Bnmr - Bnmr Fit (T)
6.4
6.6
6.8
7
7.2
7.4
7.6
7.8
Vhall (V)