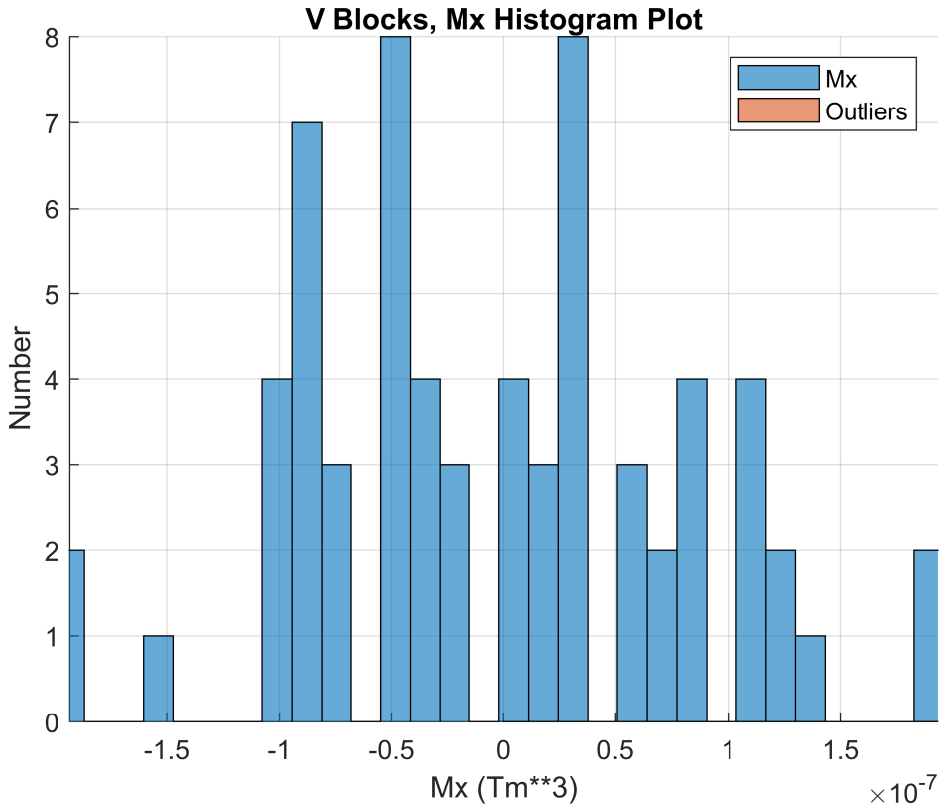
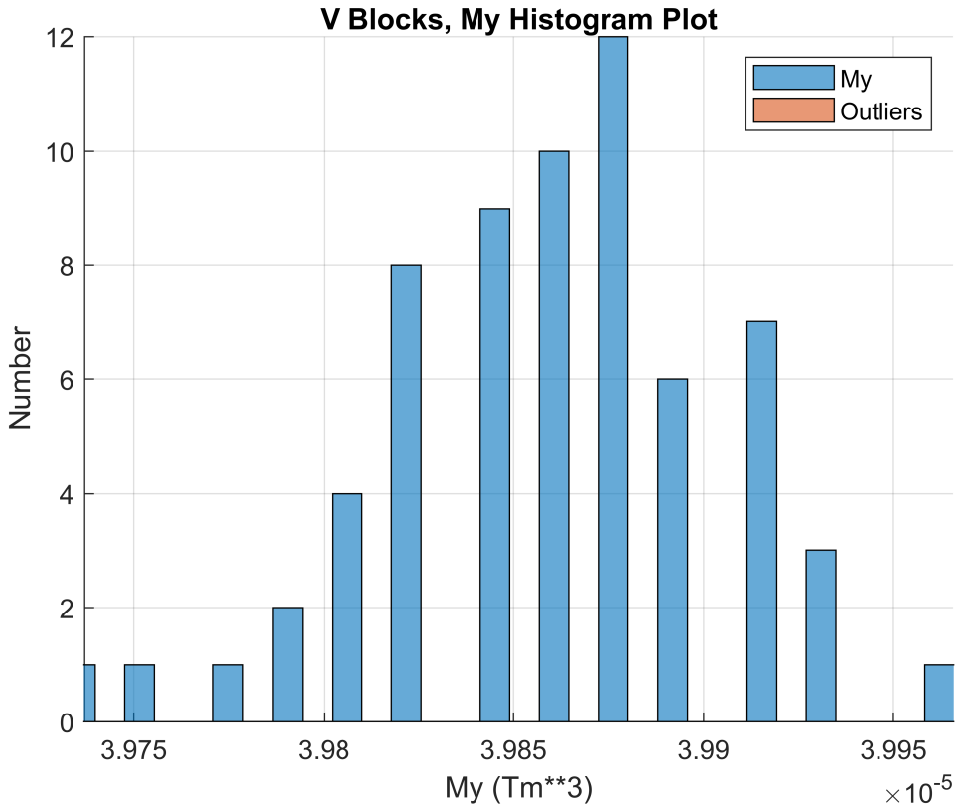
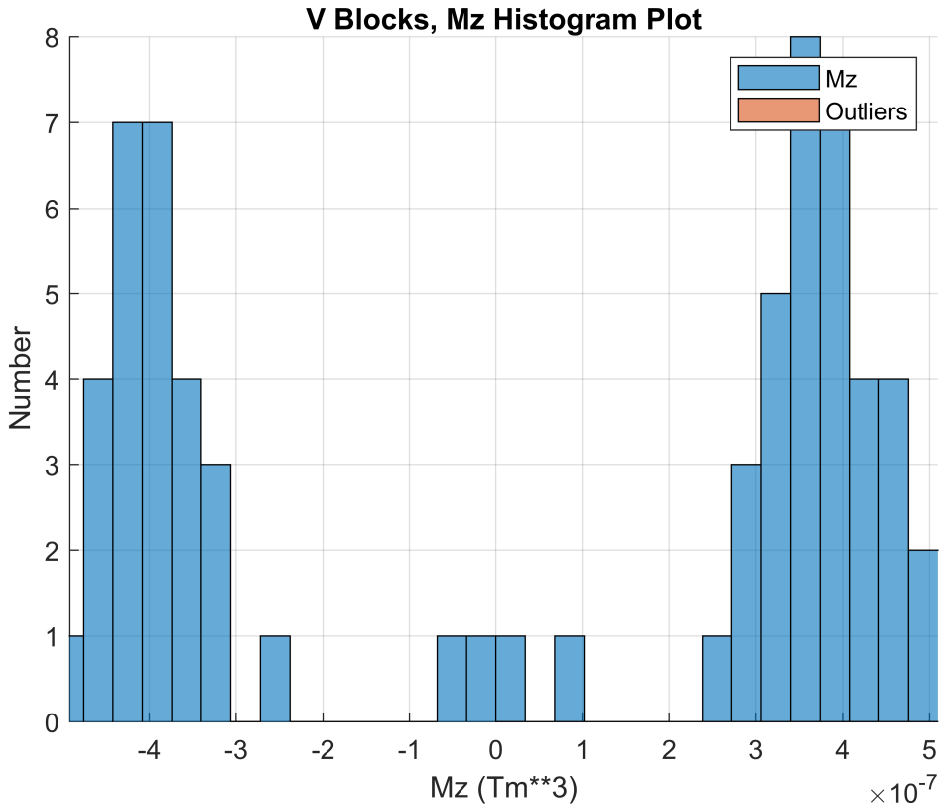
SLAC Magnetic Measurements

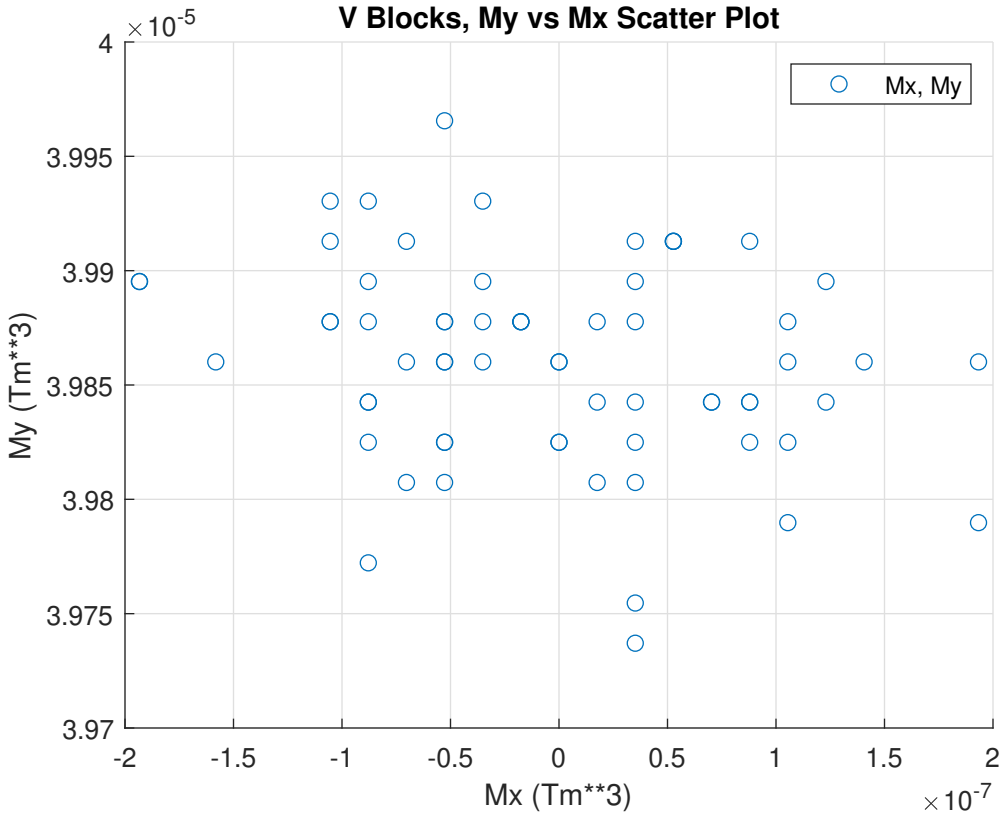
Vertically Magnetized Block Sort Analysis

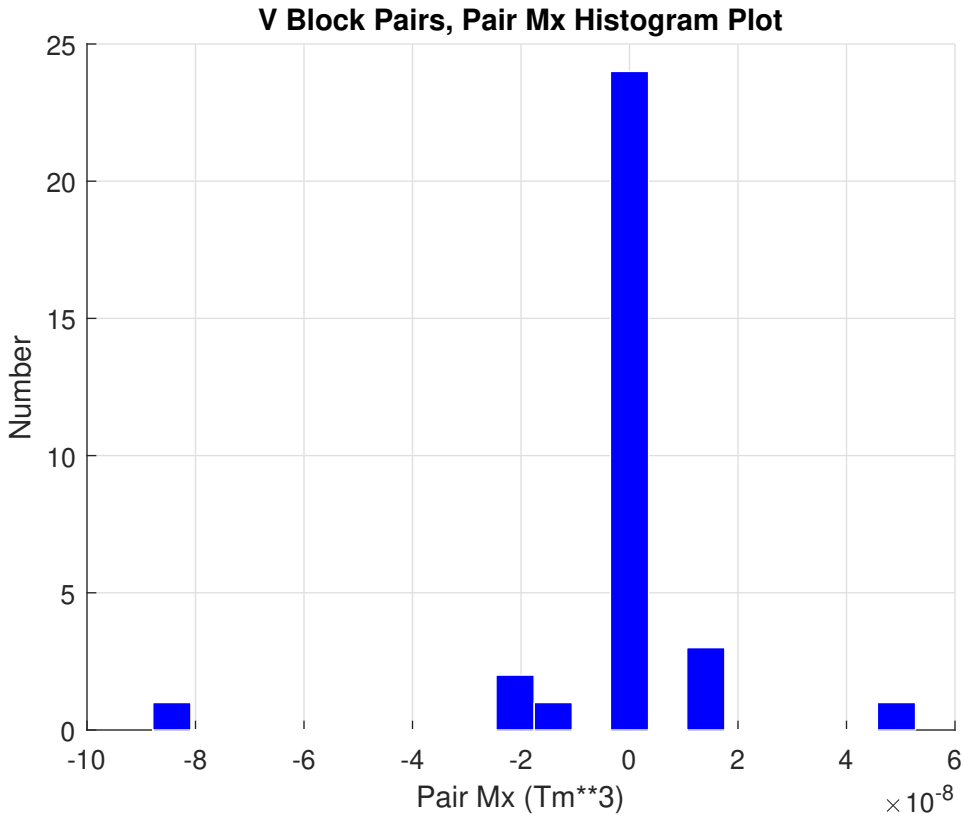
Parameters:
OUTPUT-FILE-DIR =S:\magdata\LCLS-II-HE\Phase Shifter\Magnet Blocks

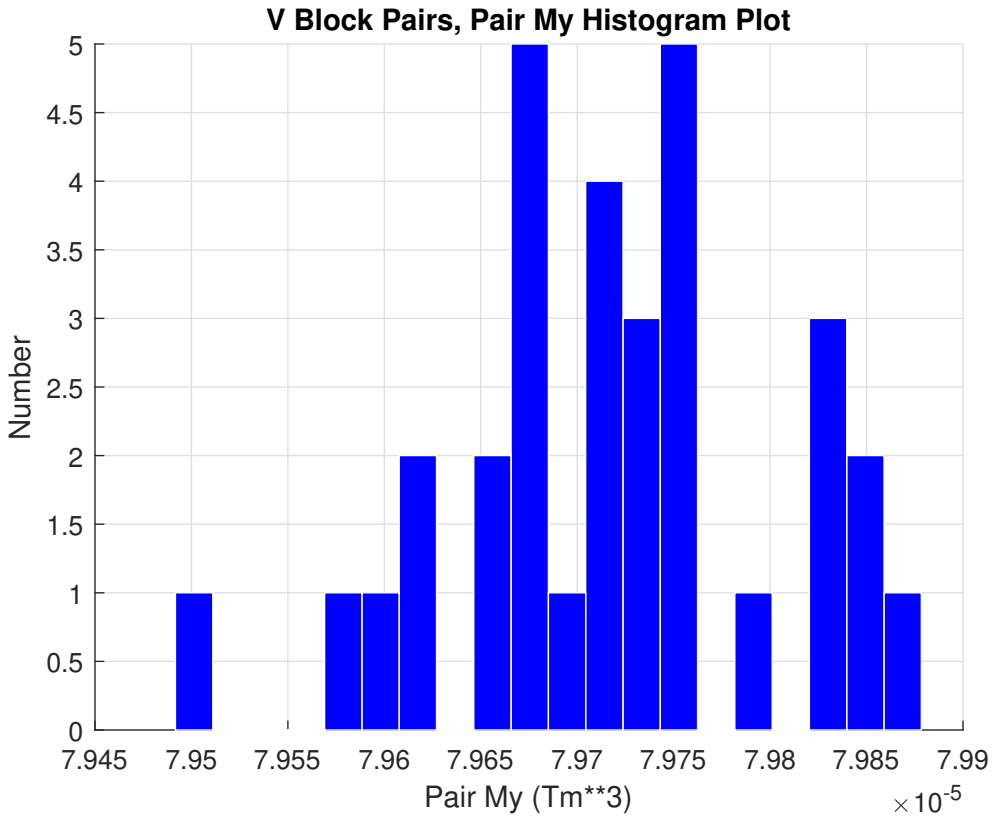

V Blocks, Mx Histogram Plot
Mx
Outliers
Number
Mx (Tm**3)
×10^-7
0
1
2
3
4
5
6
7
8
-1.5
-1
-0.5
0
0.5
1
1.5

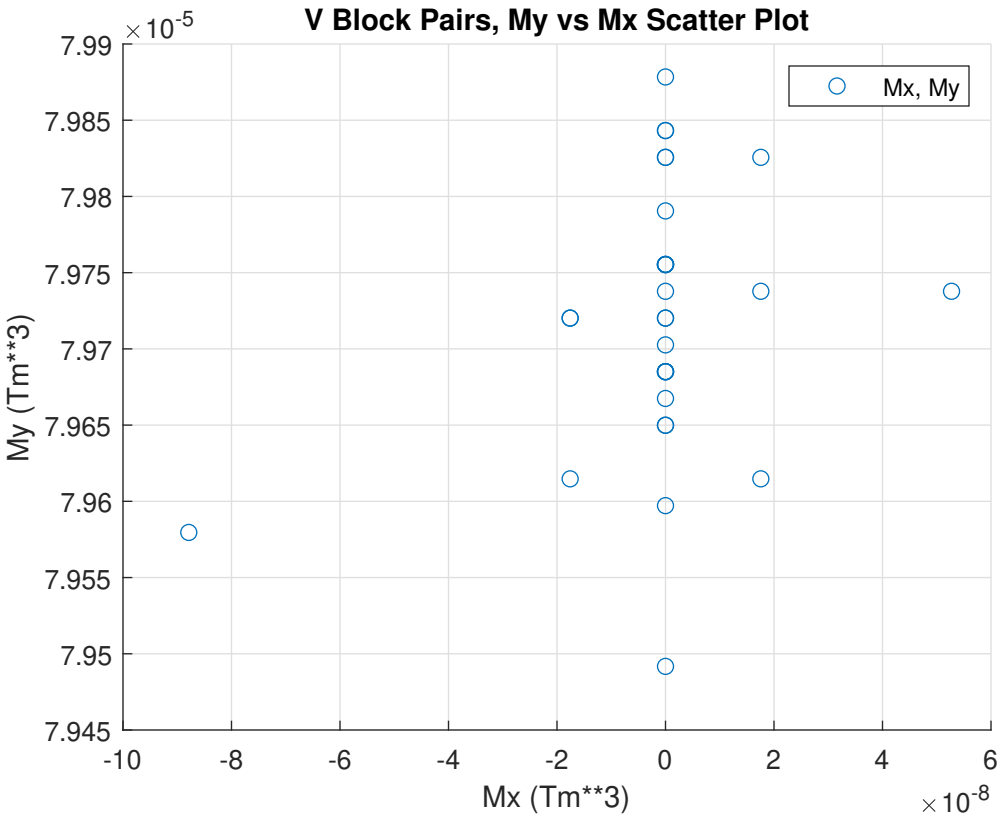

V Blocks, My Histogram Plot
My
Outliers
Number
12
10
8
6
4
2
0
3.975
3.98
3.985
3.99
3.995
My (Tm**3)
×10-5

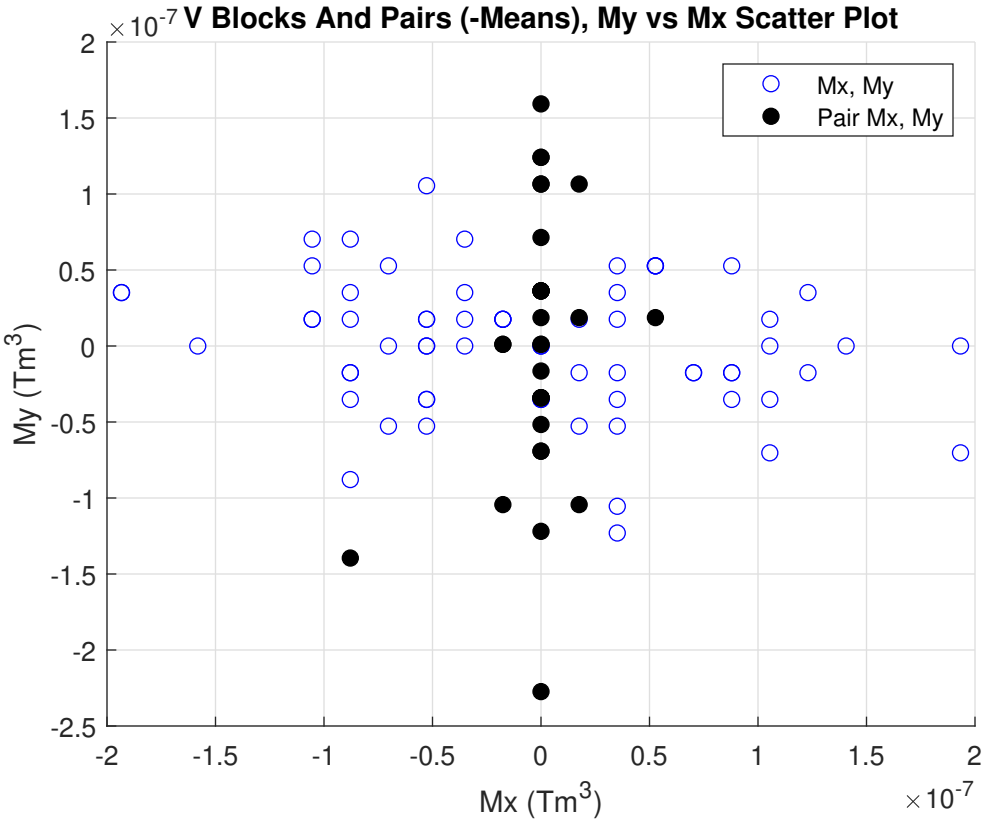

V Blocks, Mz Histogram Plot
Mz
Outliers
Number
Mz (Tm**3)
×10^-7
0
1
2
3
4
5
6
7
8
-4
-3
-2
-1
0
1
2
3
4
5


V Blocks, My vs Mx Scatter Plot
Mx, My
My (Tm**3)
Mx (Tm**3)
×10^-5
×10^-7
4
3.995
3.99
3.985
3.98
3.975
3.97
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2


V Block Pairs, Pair Mx Histogram Plot
Number
25
20
15
10
5
0
-10
-8
-6
-4
-2
0
2
4
6
Pair Mx (Tm**3)
×10-8


V Block Pairs, Pair My Histogram Plot
Number
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
7.945
7.95
7.955
7.96
7.965
7.97
7.975
7.98
7.985
7.99
Pair My (Tm**3)
×10-5


V Block Pairs, My vs Mx Scatter Plot
×10^-5
7.99
7.985
7.98
7.975
7.97
7.965
7.96
7.955
7.95
7.945
My (Tm**3)
Mx, My
-10
-8
-6
-4
-2
0
2
4
6
Mx (Tm**3)
×10^-8


V Blocks And Pairs (-Means), My vs Mx Scatter Plot
×10^-7
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
My (Tm^3)
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
Mx (Tm^3)
×10^-7
Mx, My
Pair Mx, My