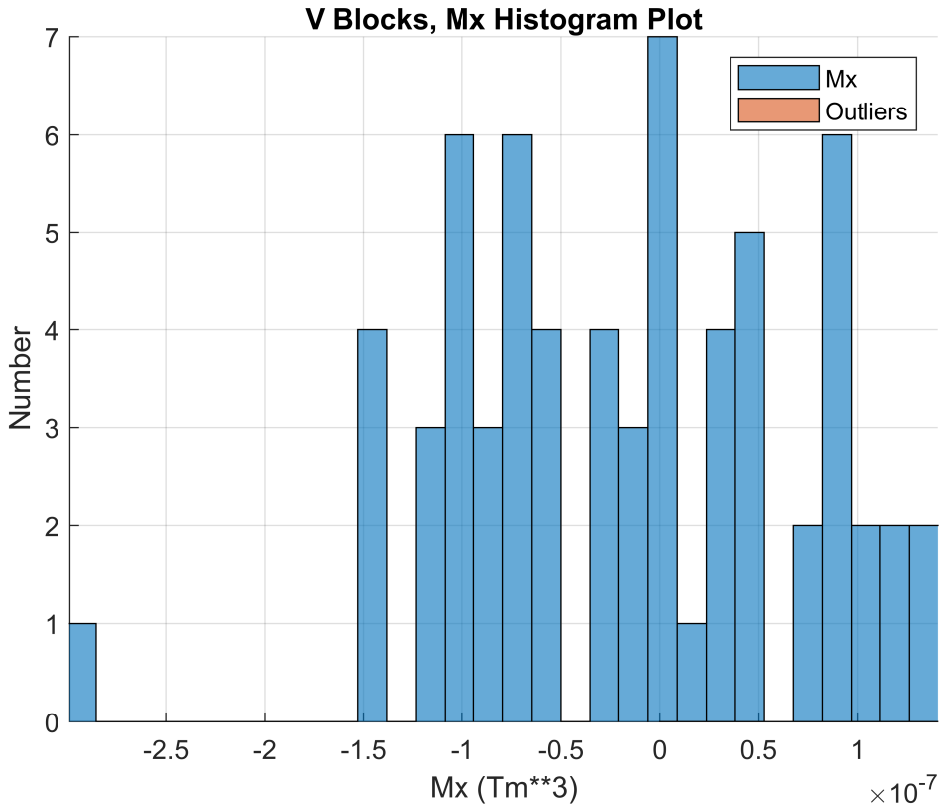
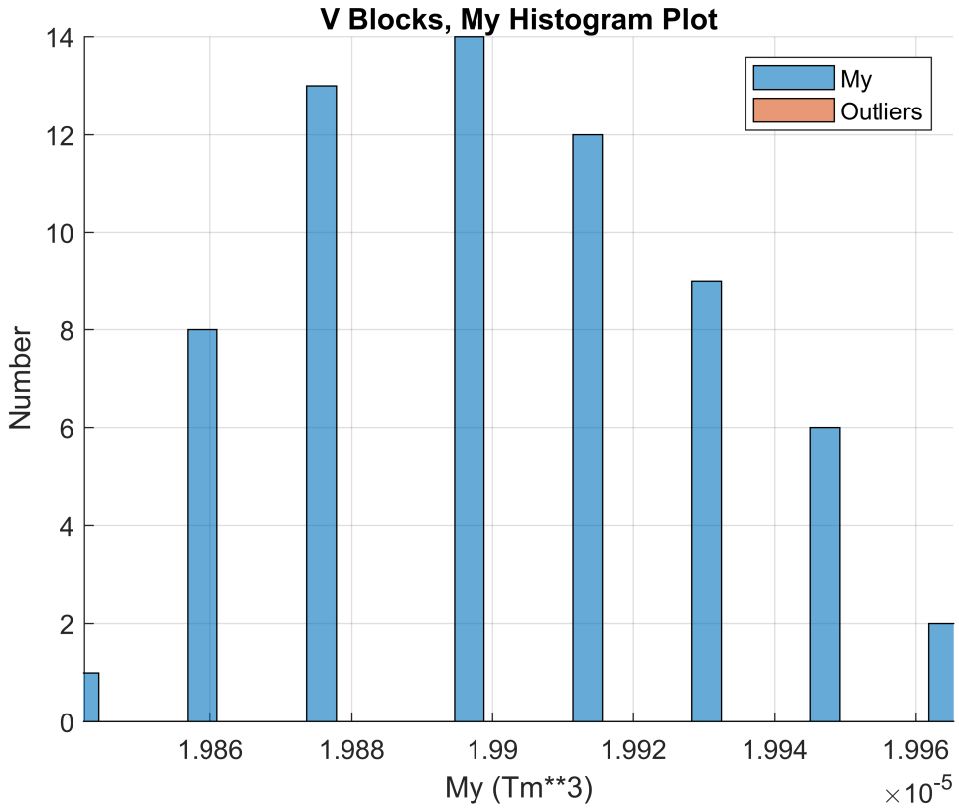
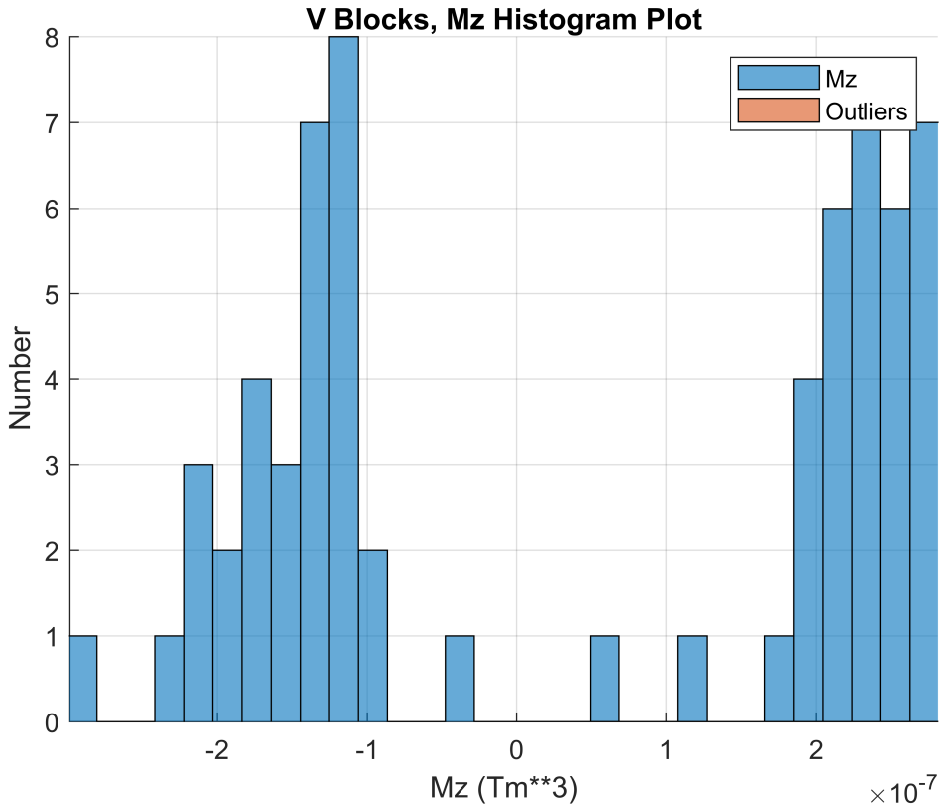
SLAC Magnetic Measurements

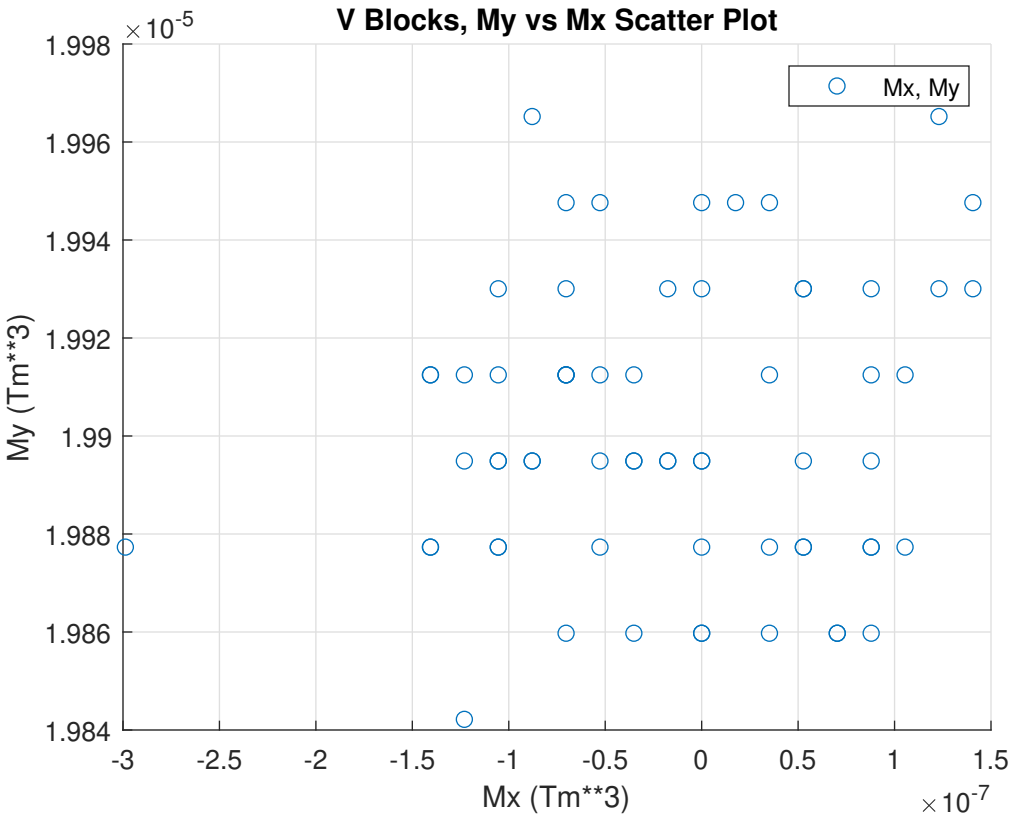
Vertically Magnetized Block Sort Analysis

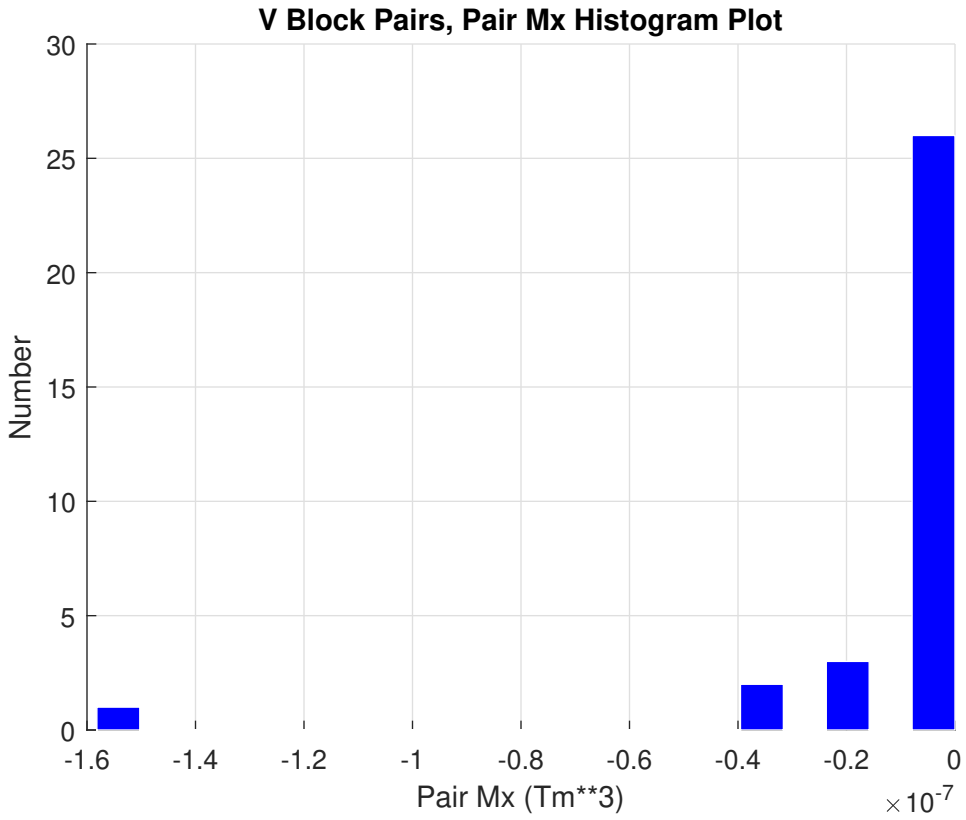
Parameters:
OUTPUT-FILE-DIR =S:\magdata\LCLS-II-HE\Phase Shifter\Magnet Blocks

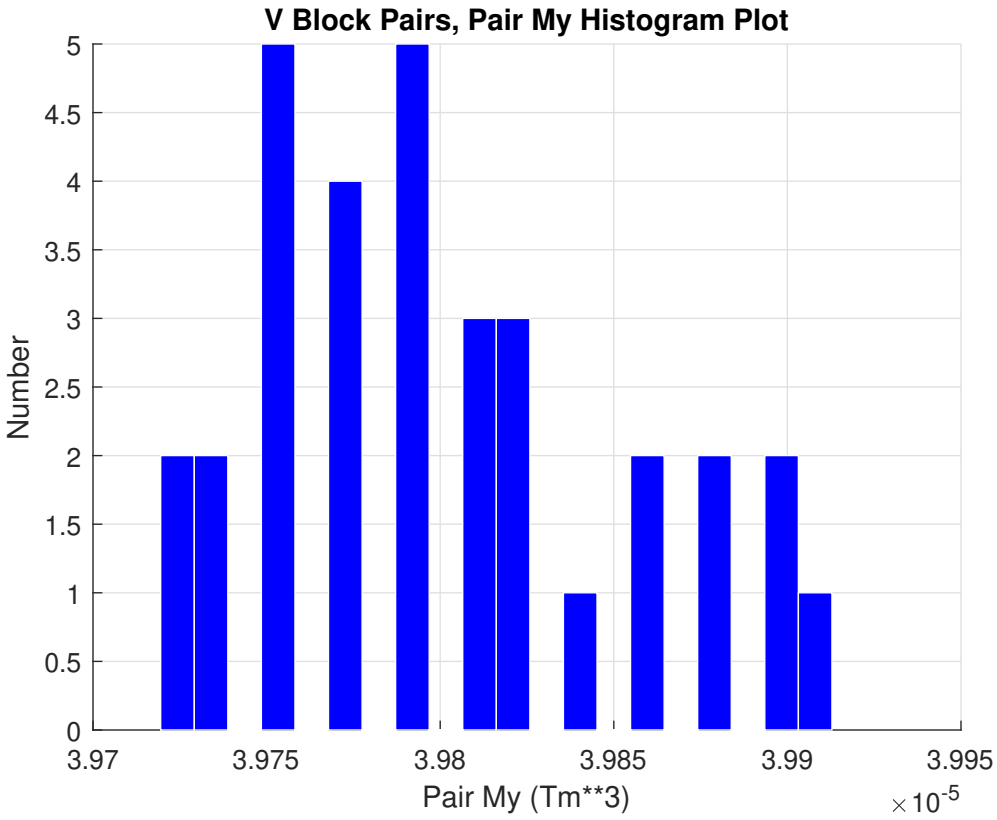

V Blocks, Mx Histogram Plot
Mx
Outliers
Number
0
1
2
3
4
5
6
7
-2.5
-2
-1.5
-1
-0.5
0
0.5
1
Mx (Tm**3)
×10-7

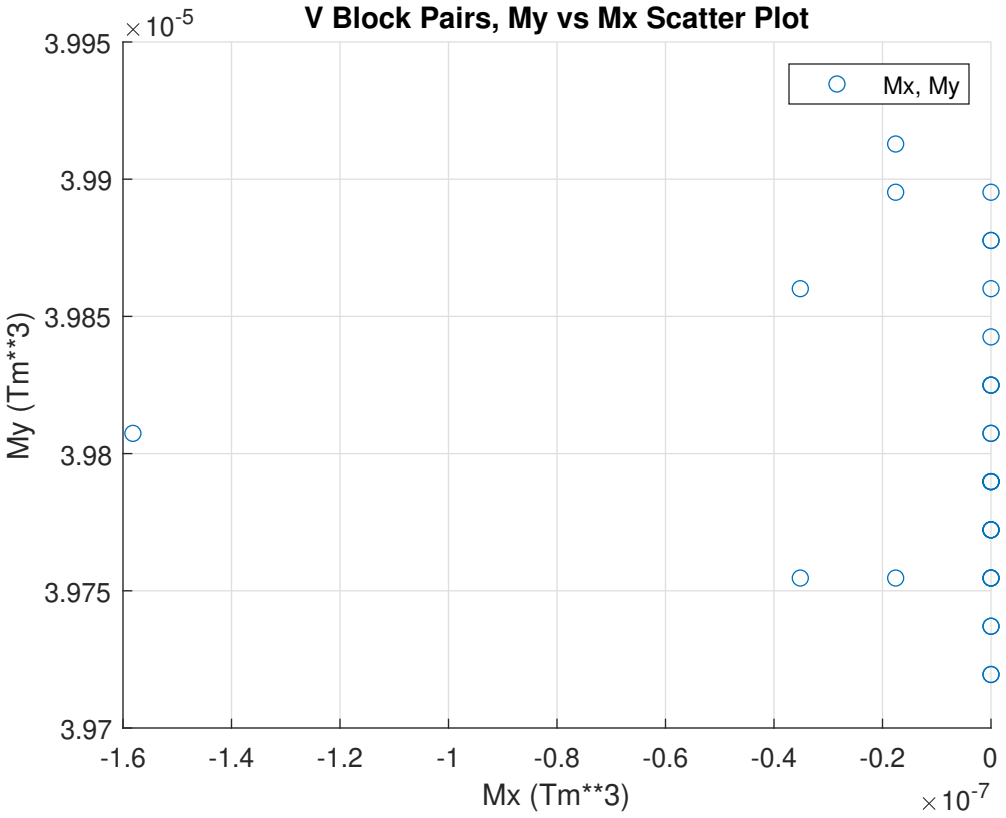

V Blocks, My Histogram Plot
My
Outliers
Number
14
12
10
8
6
4
2
0
1.986
1.988
1.99
1.992
1.994
1.996
My (Tm**3)
×10-5

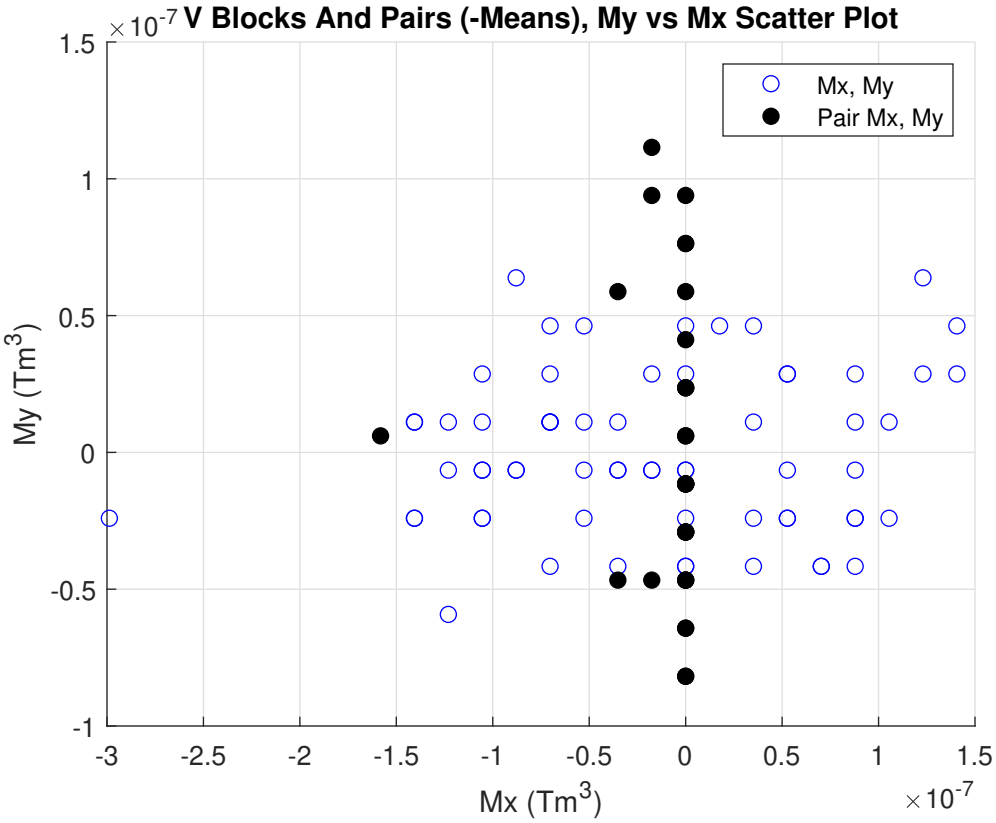

V Blocks, Mz Histogram Plot
Mz
Outliers
Number
0
1
2
3
4
5
6
7
8
-2
-1
0
1
2
Mz (Tm**3)
×10-7


V Blocks, My vs Mx Scatter Plot
Mx, My
My (Tm**3)
Mx (Tm**3)
×10^-5
×10^-7
1.998
1.996
1.994
1.992
1.99
1.988
1.986
1.984
-3
-2.5
-2
-1.5
-1
-0.5
0
0.5
1
1.5


V Block Pairs, Pair Mx Histogram Plot
Number
30
25
20
15
10
5
0
-1.6
-1.4
-1.2
-1
-0.8
-0.6
-0.4
-0.2
0
Pair Mx (Tm**3)
×10-7


V Block Pairs, Pair My Histogram Plot
Number
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
3.97
3.975
3.98
3.985
3.99
3.995
Pair My (Tm**3)
×10-5


V Block Pairs, My vs Mx Scatter Plot
×10^-5
3.995
3.99
3.985
3.98
3.975
3.97
My (Tm**3)
Mx, My
-1.6
-1.4
-1.2
-1
-0.8
-0.6
-0.4
-0.2
0
Mx (Tm**3)
×10^-7


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