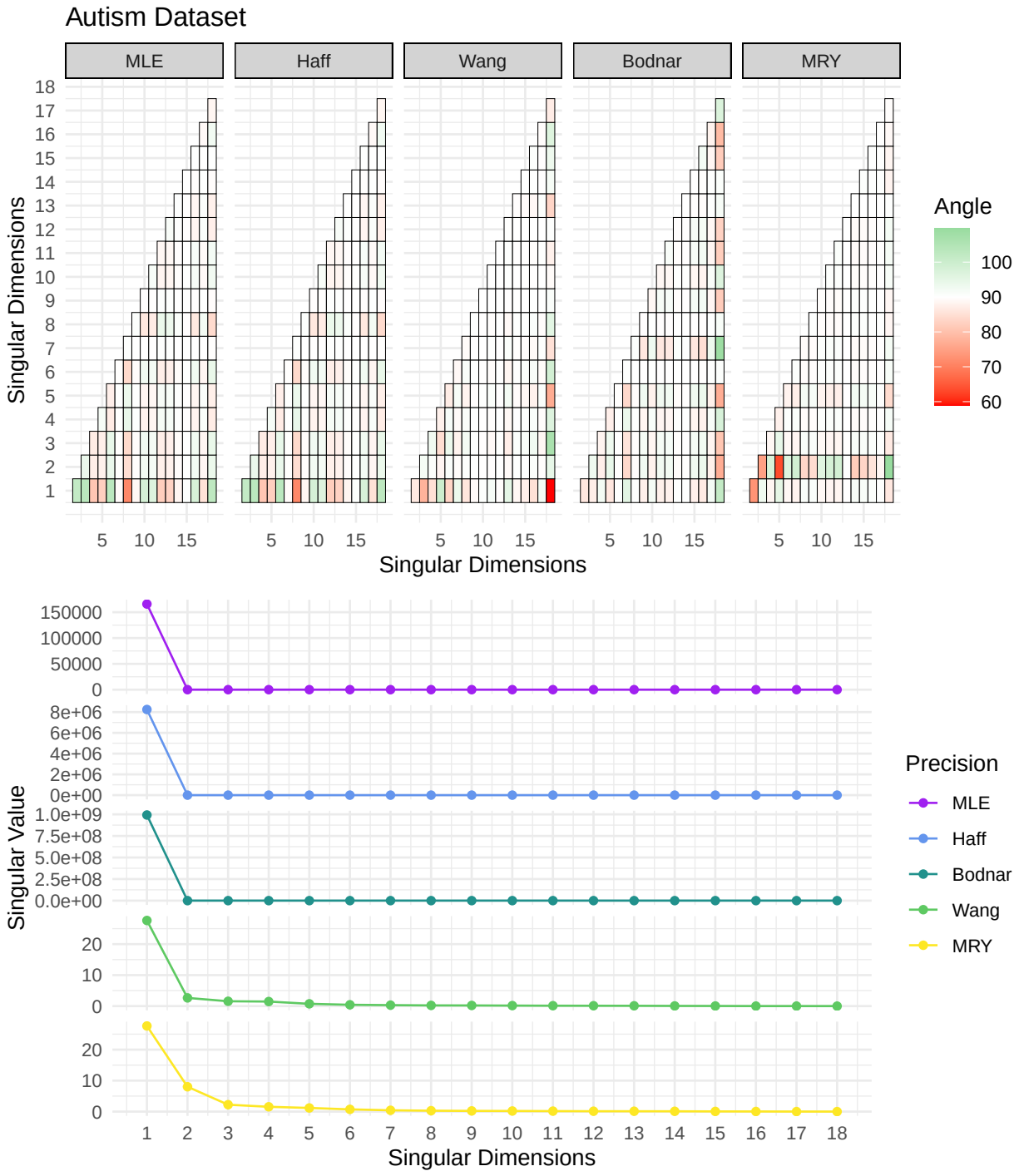
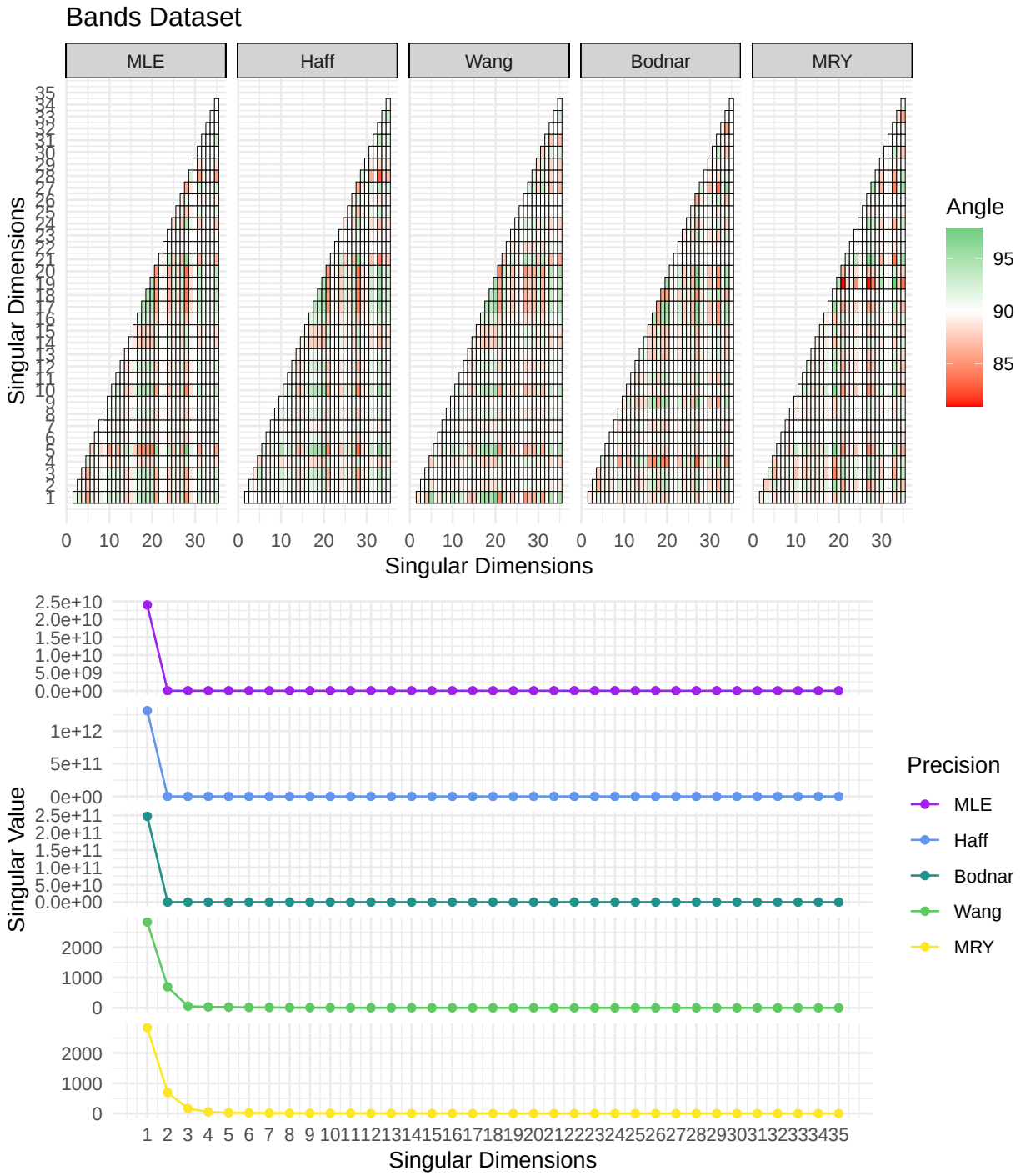
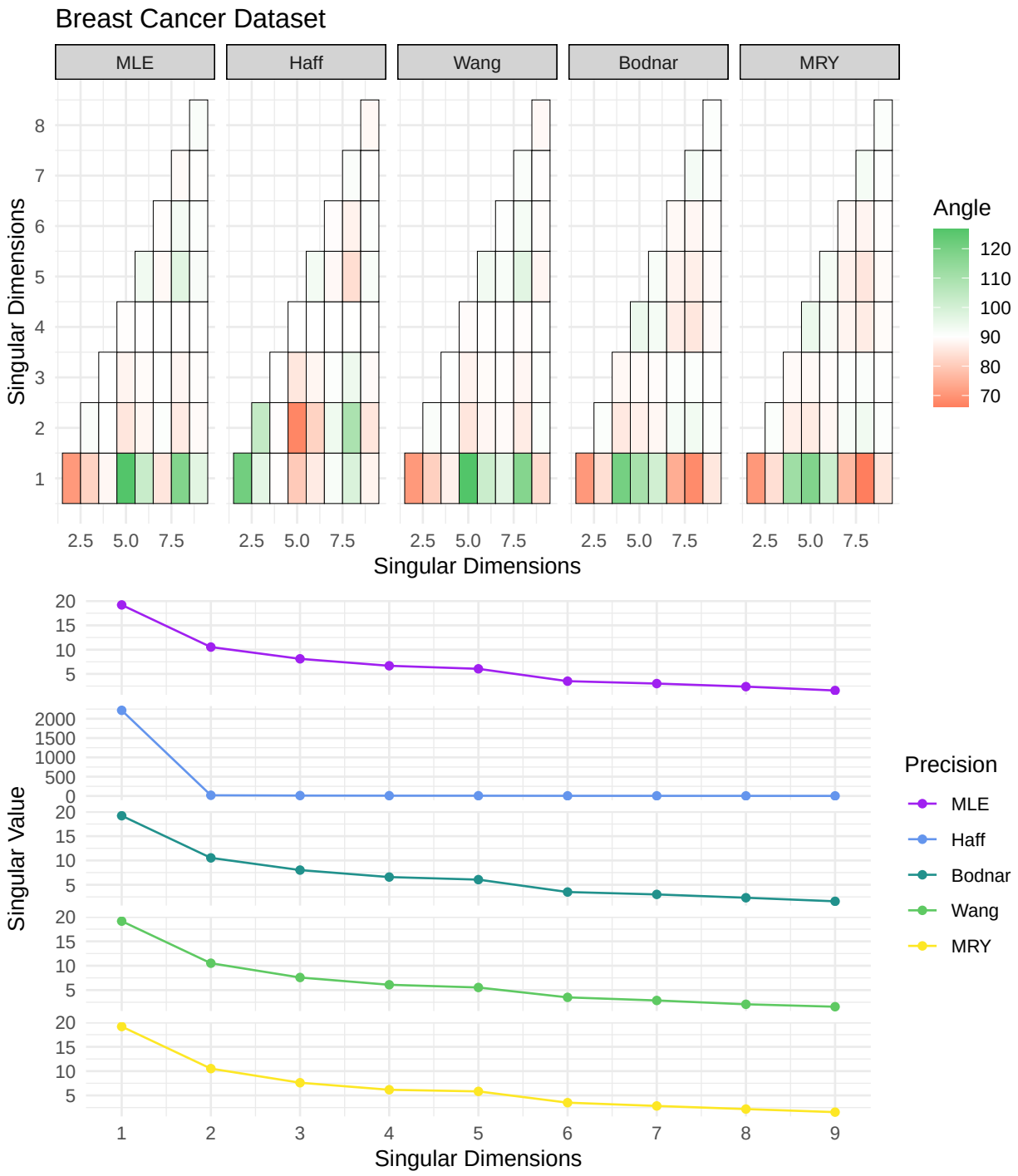
Singular Dimension Analysis of $\widehat{M}$ Matrices




Bands Dataset
MLE
Haff
Wang
Bodnar
MRY
Singular Dimensions
Singular Dimensions
Angle
95
90
85
Singular Value
Singular Dimensions
Precision
MLE
Haff
Bodnar
Wang
MRY


Breast Cancer Dataset
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Haff
Wang
Bodnar
MRY
Singular Dimensions
Singular Dimensions
Angle
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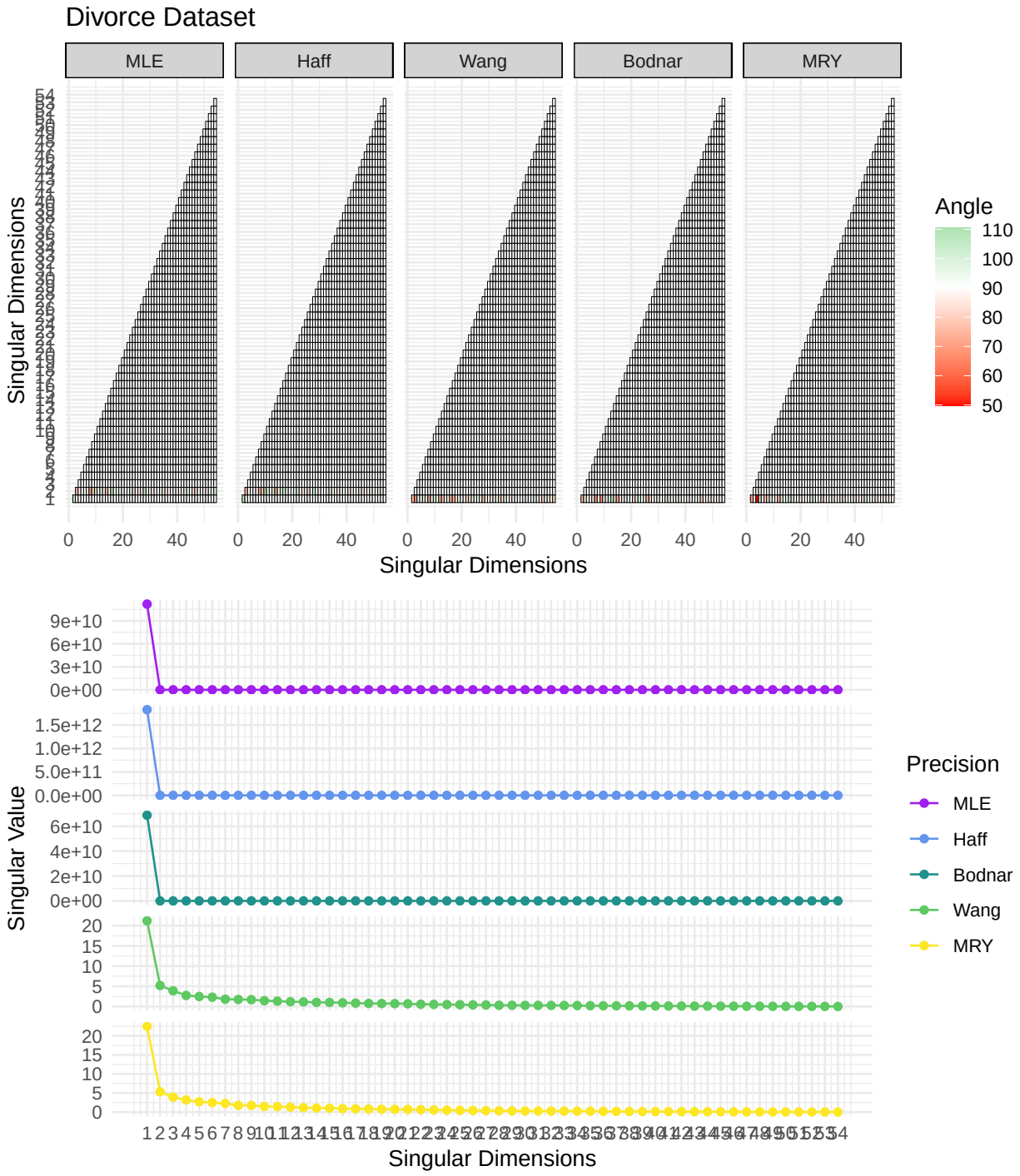
110
100
90
80
70
Singular Value
Singular Dimensions
Precision
MLE
Haff
Bodnar
Wang
MRY


Divorce Dataset
MLE
Haff
Wang
Bodnar
MRY
Singular Dimensions
Singular Dimensions
Angle
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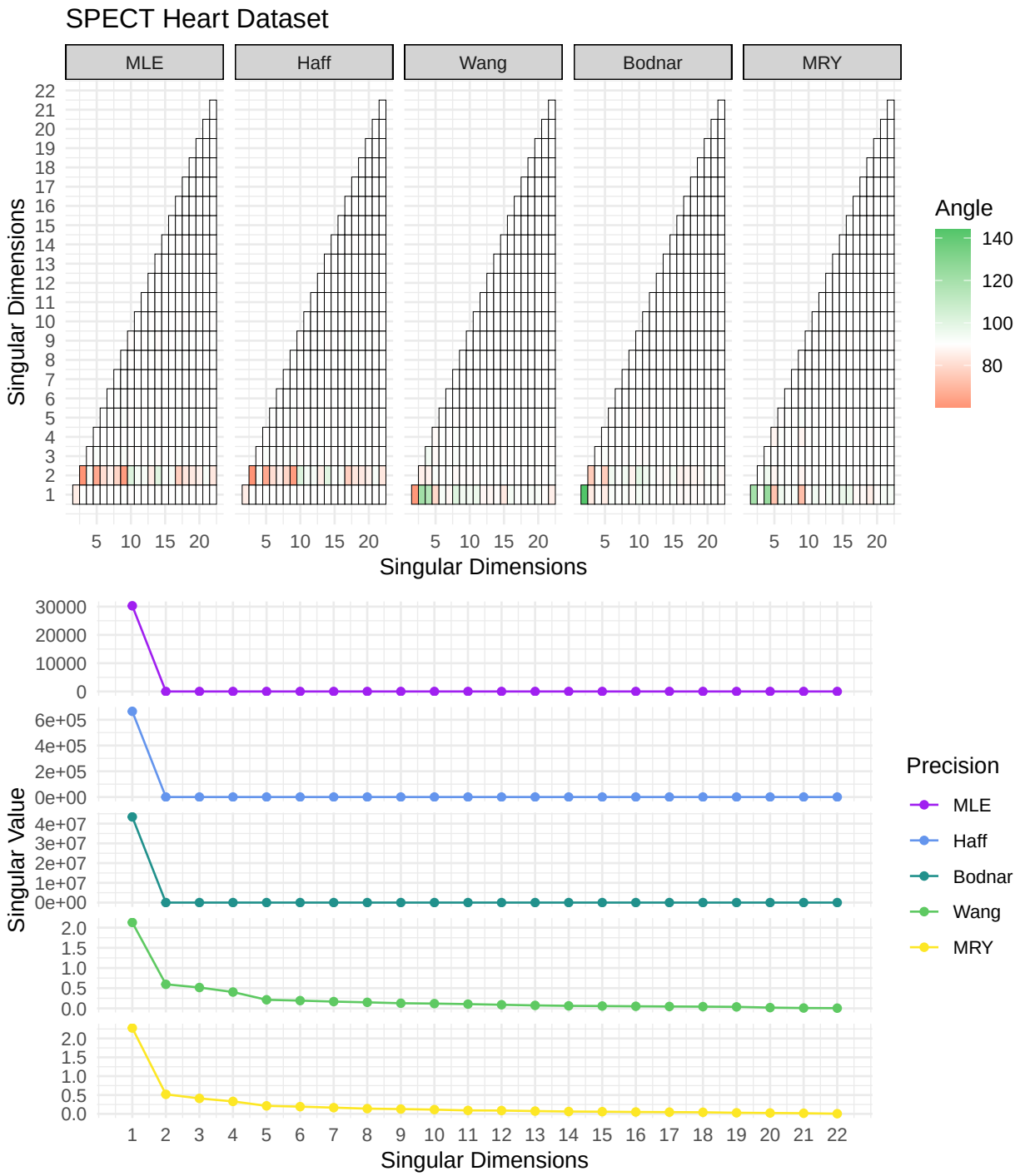
100
90
80
70
60
50
Singular Value
9e+10
6e+10
3e+10
0e+00
1.5e+12
1.0e+12
5.0e+11
0.0e+00
6e+10
4e+10
2e+10
0e+00
20
15
10
5
0
Singular Dimensions
Precision
MLE
Haff
Bodnar
Wang
MRY


SPECT Heart Dataset
MLE
Haff
Wang
Bodnar
MRY
Singular Dimensions
Singular Dimensions
Angle
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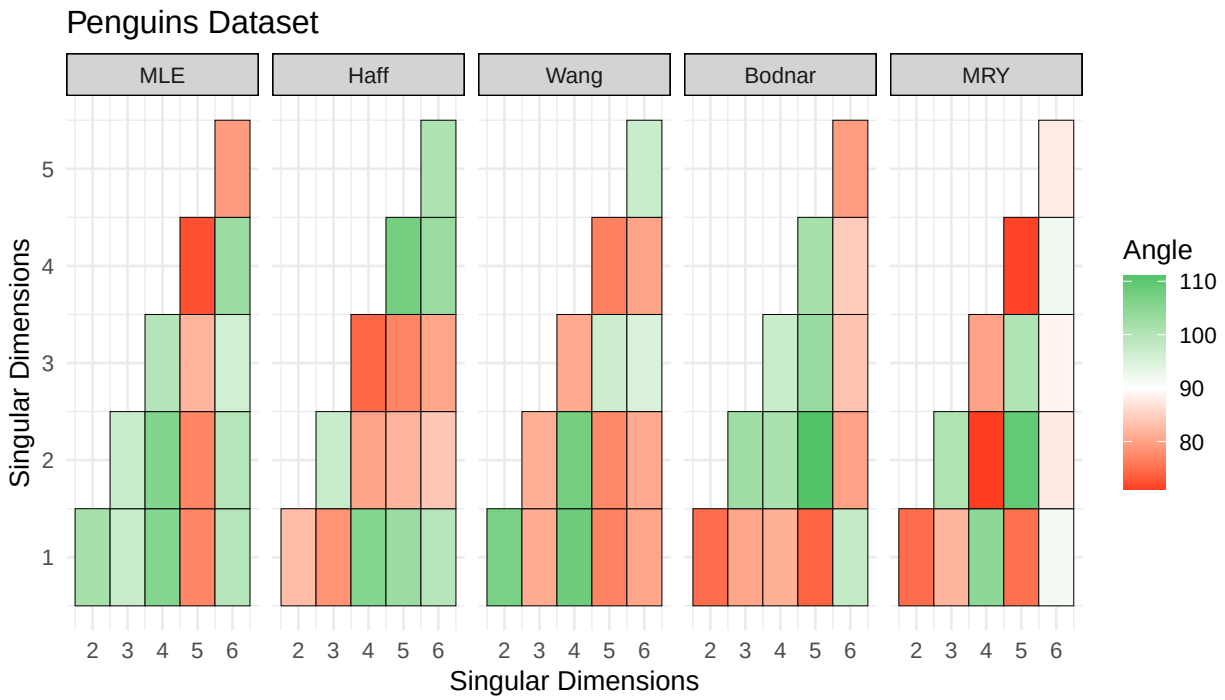
120
100
80
Singular Value
Singular Dimensions
Precision
MLE
Haff
Bodnar
Wang
MRY


Penguins Dataset
MLE
Haff
Wang
Bodnar
MRY
Singular Dimensions
Singular Dimensions
Angle
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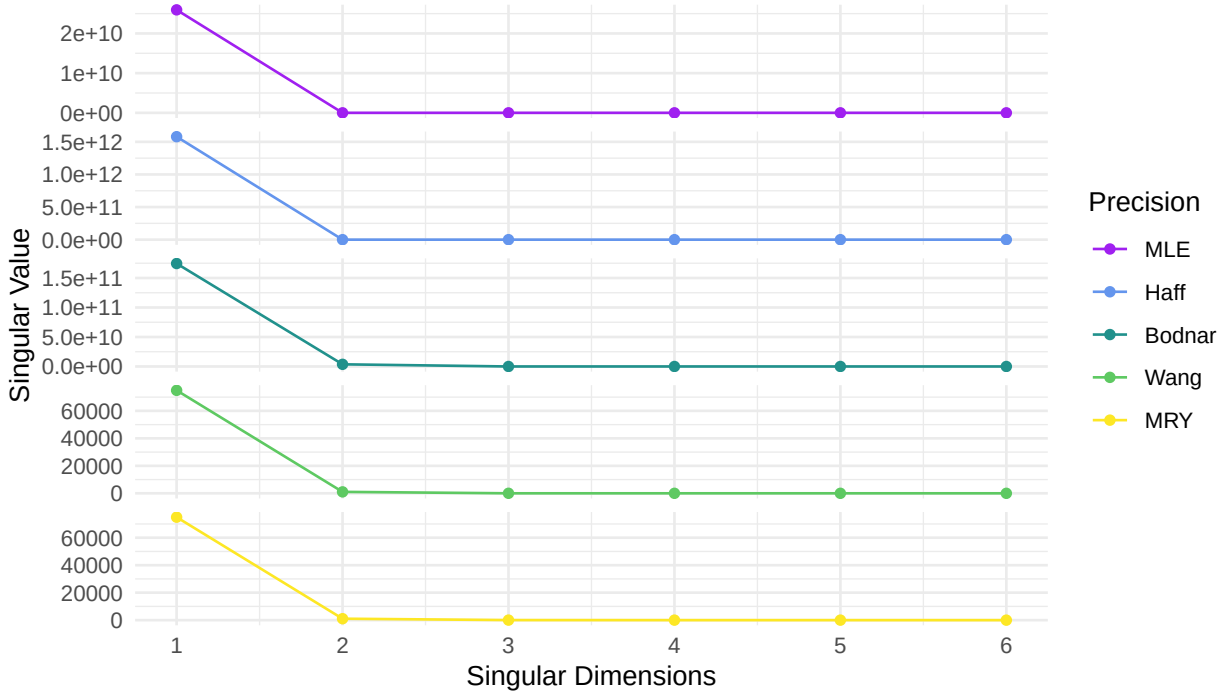
100
90
80


Singular Value
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1e+10
0e+00
1.5e+12
1.0e+12
5.0e+11
0.0e+00
1.5e+11
1.0e+11
5.0e+10
0.0e+00
60000
40000
20000
0
60000
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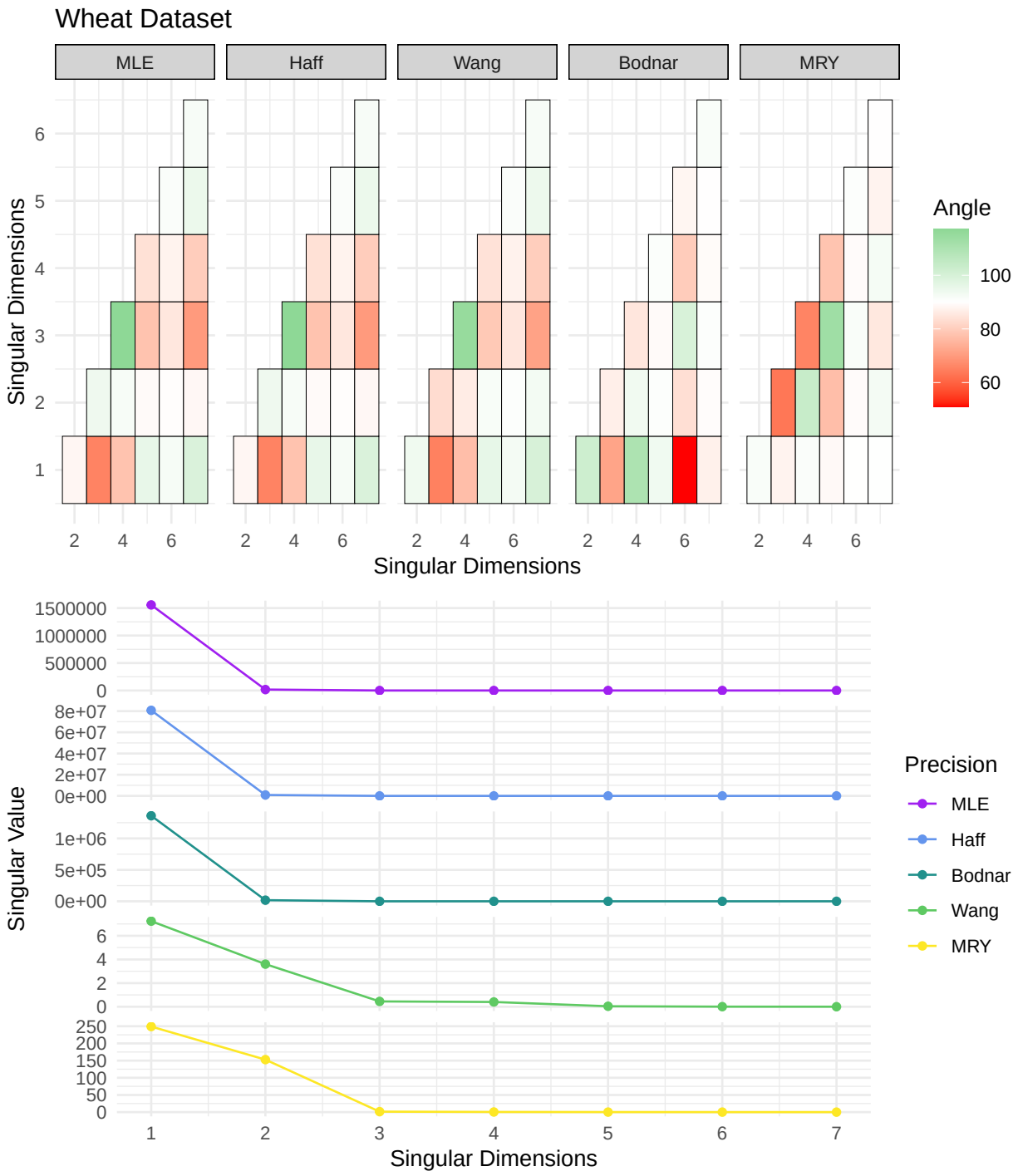
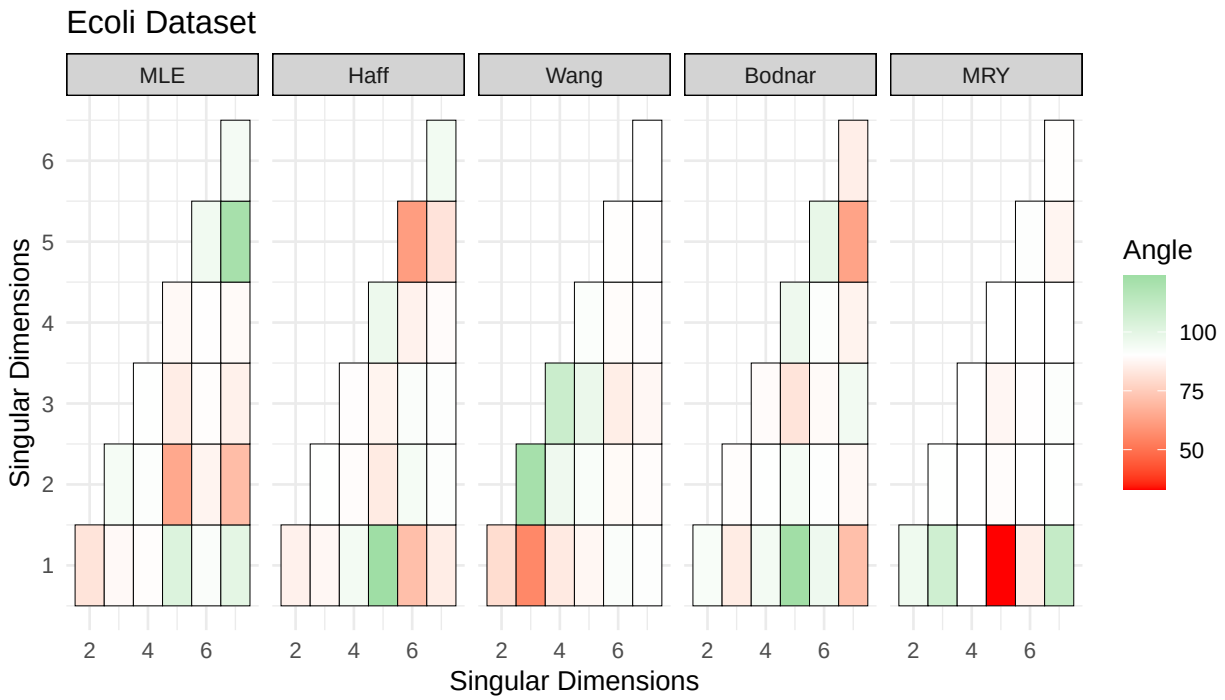
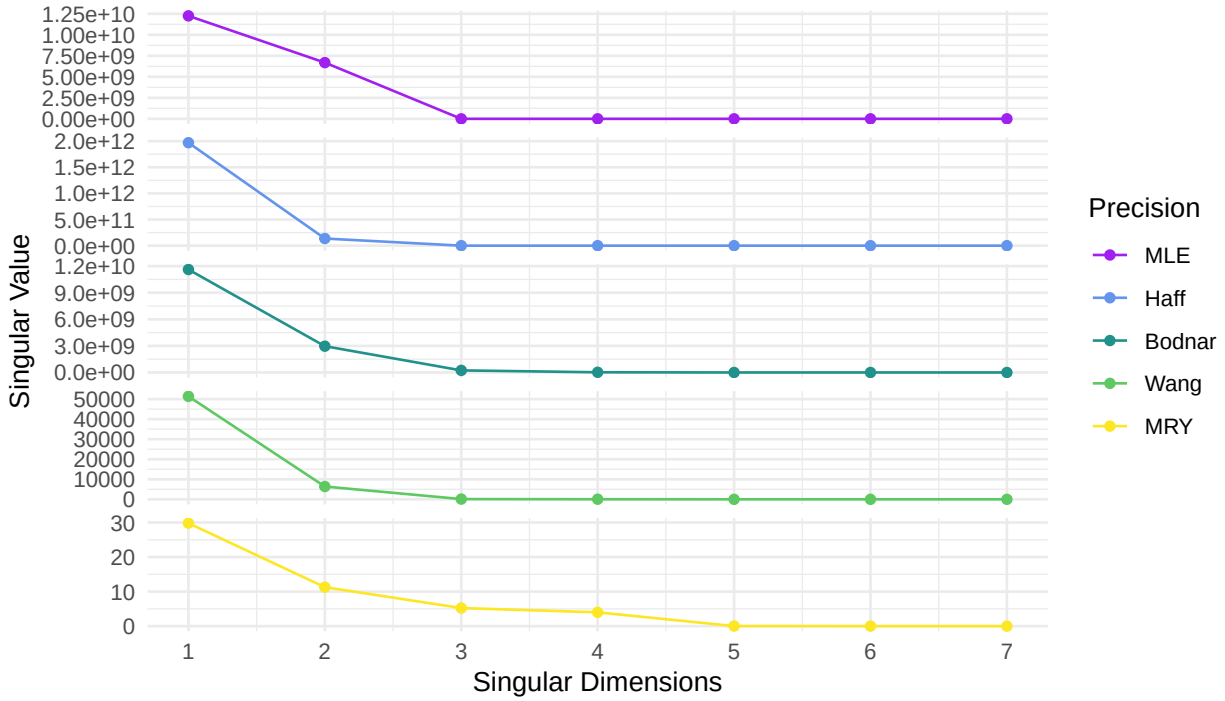
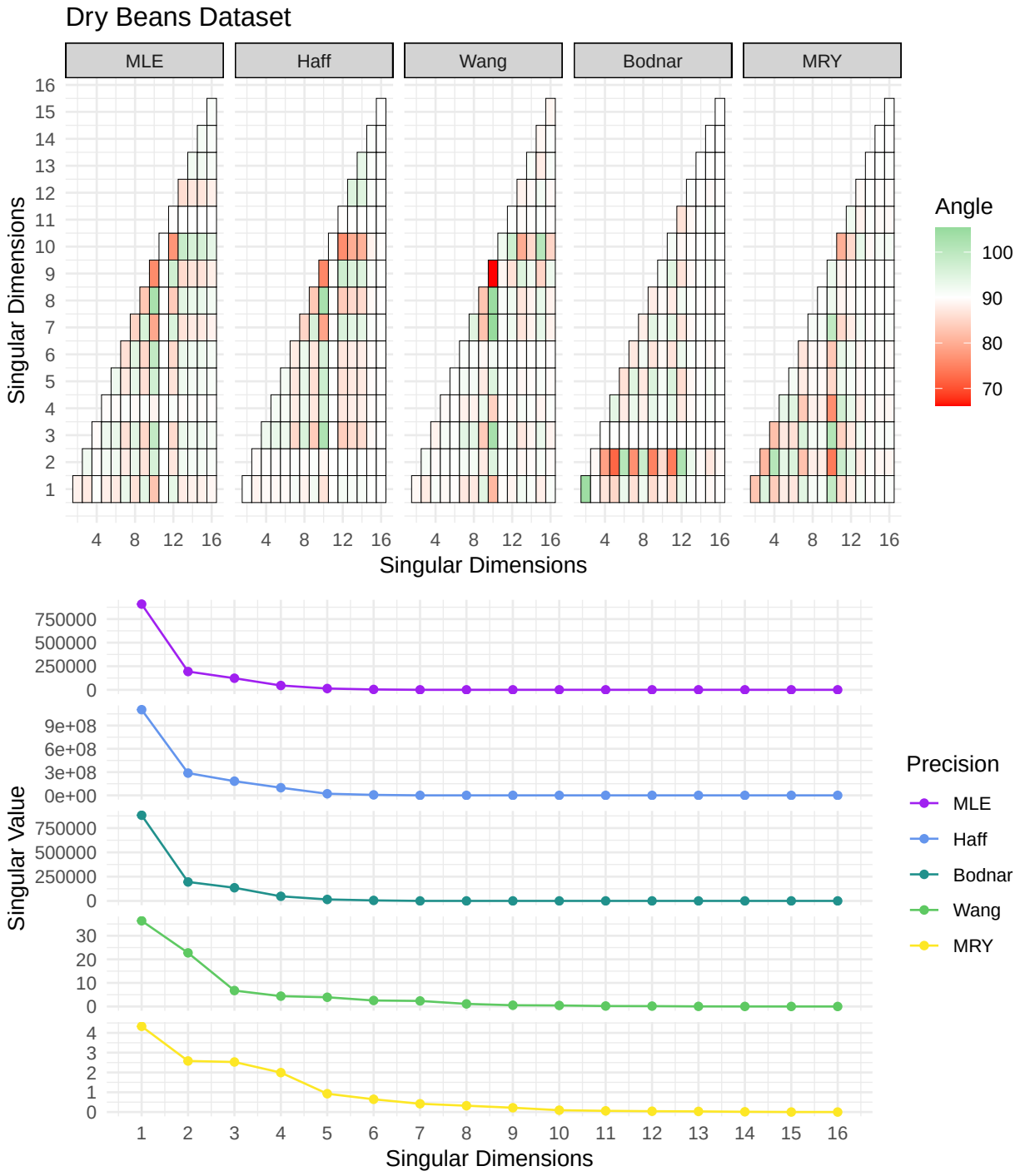
1
2
3
4
5
6
Singular Dimensions
Precision
MLE
Haff
Bodnar
Wang
MRY


Wheat Dataset
MLE
Haff
Wang
Bodnar
MRY
Singular Dimensions
Singular Dimensions
Angle
100
80
60
Singular Value
1500000
1000000
500000
0
8e+07
6e+07
4e+07
2e+07
0e+00
1e+06
5e+05
0e+00
250
200
150
100
50
Singular Dimensions
Precision
MLE
Haff
Bodnar
Wang
MRY


Ecoli Dataset
MLE
Haff
Wang
Bodnar
MRY
Singular Dimensions
Singular Dimensions
Angle
100
75
50


Singular Value
Singular Dimensions
Precision
MLE
Haff
Bodnar
Wang
MRY


Dry Beans Dataset
MLE
Haff
Wang
Bodnar
MRY
Singular Dimensions
Singular Dimensions
Angle
100
90
80
70
Singular Value
750000
500000
250000
0
9e+08
6e+08
3e+08
0e+00
30
20
10
Singular Dimensions
Precision
MLE
Haff
Bodnar
Wang
MRY