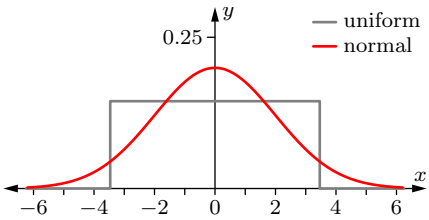
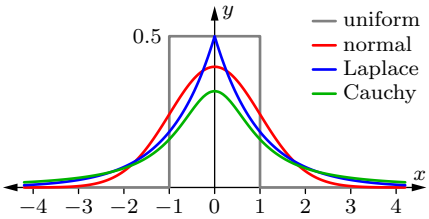
Linear model used for the experiments:

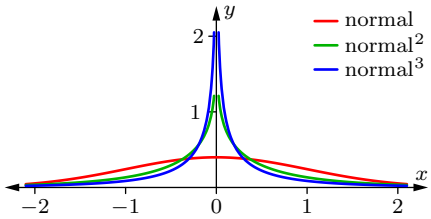
$$y = x + \epsilon$$

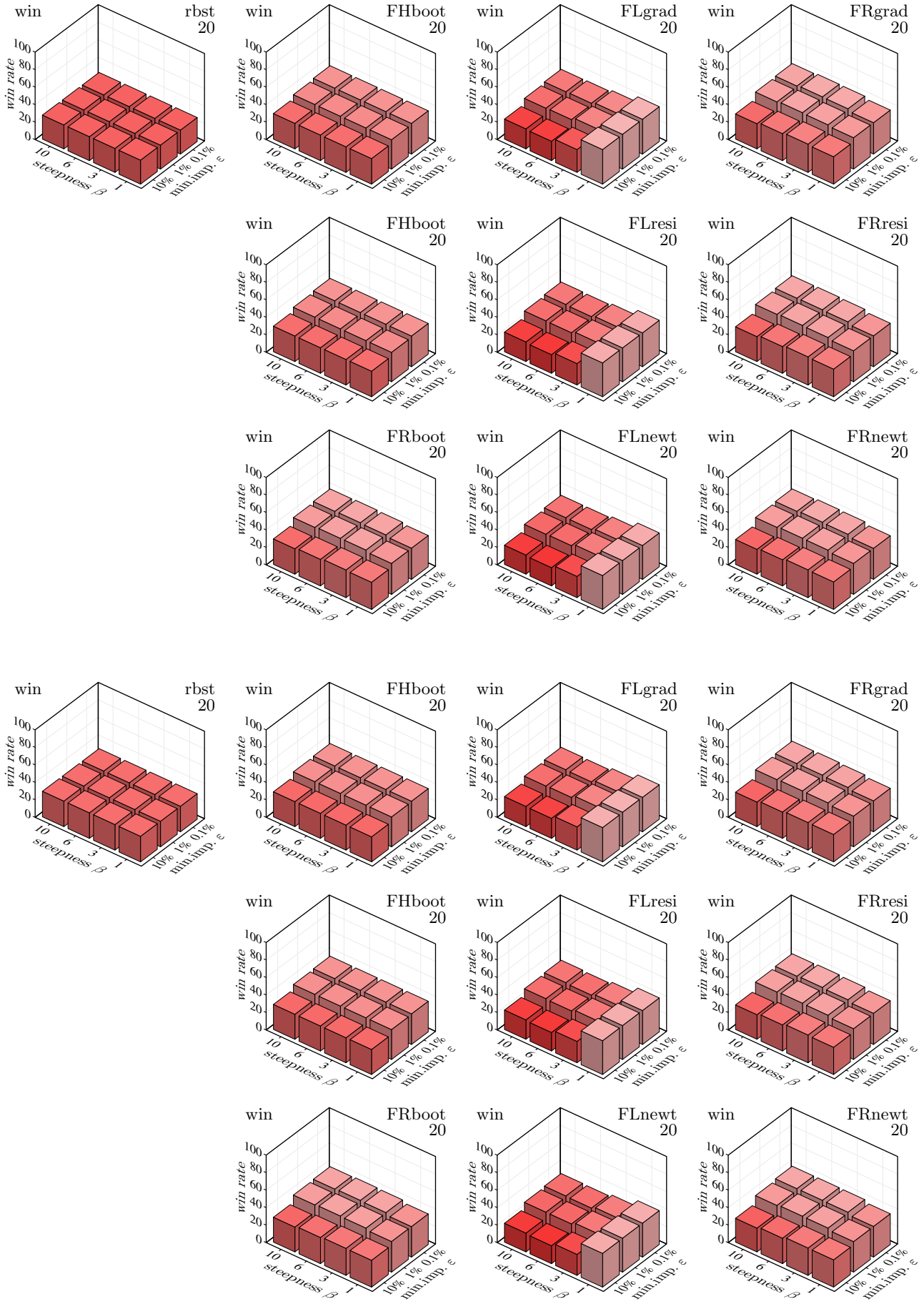
Distributions the x-values are sampled from:

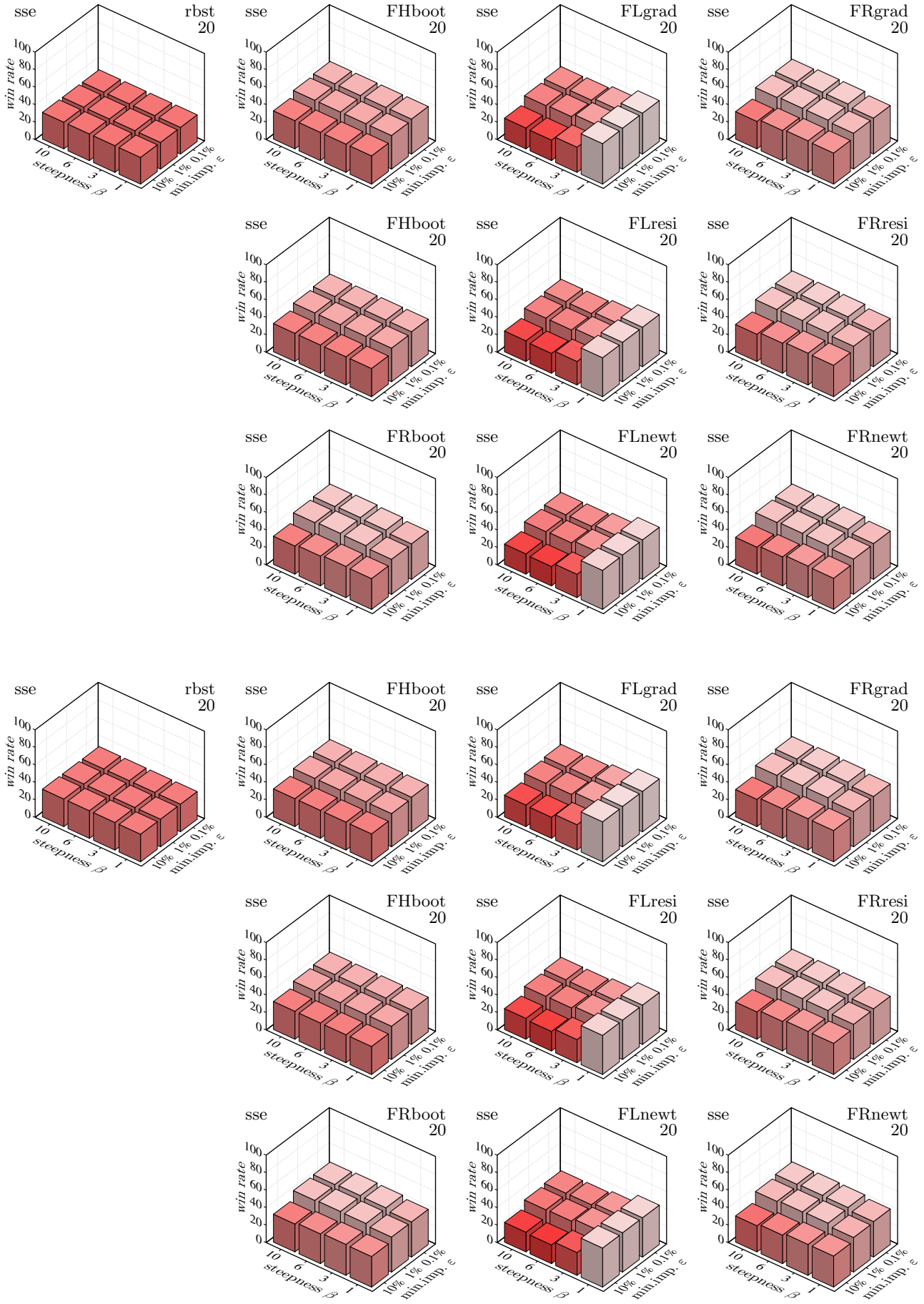


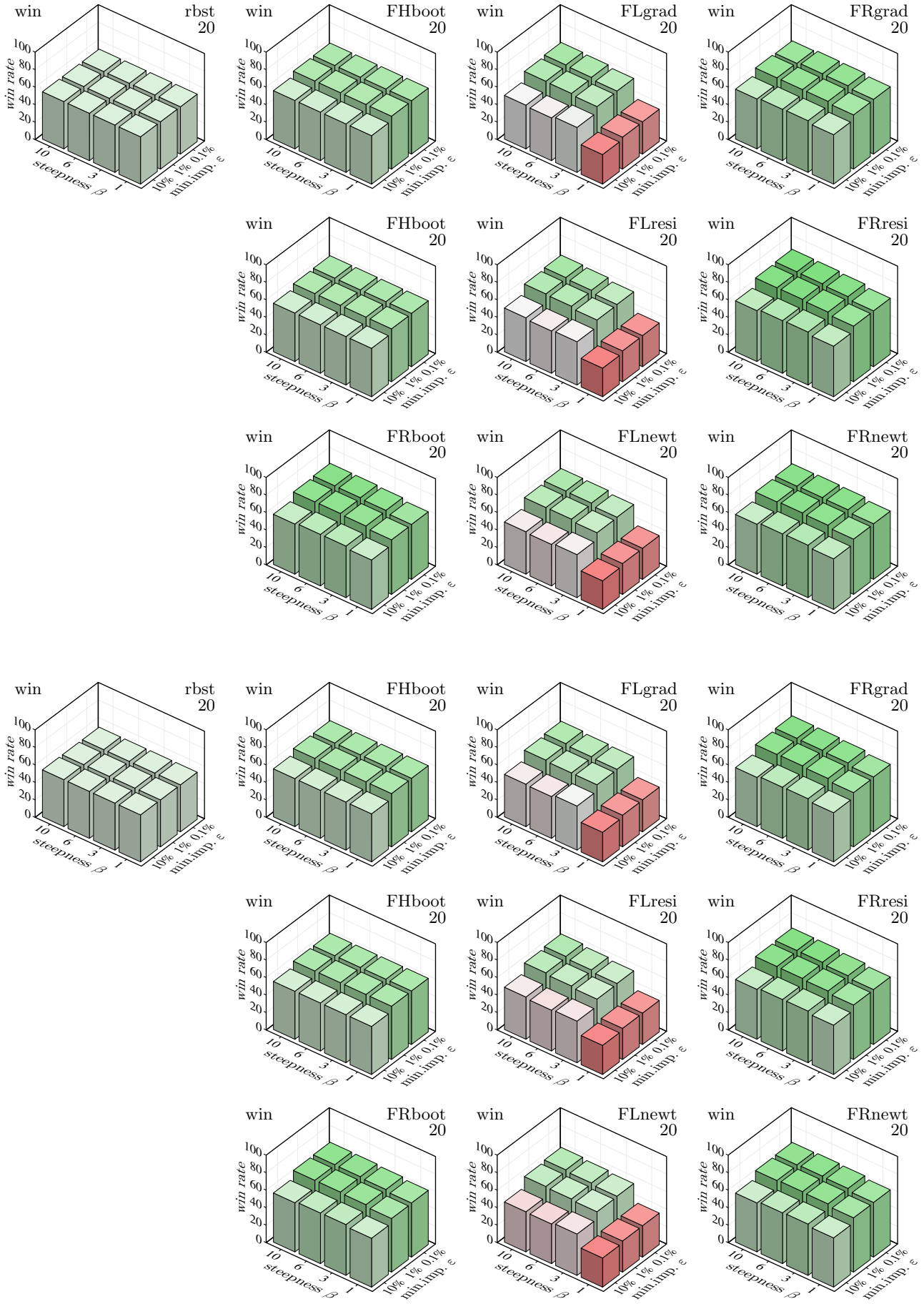
Distributions the error terms ϵ are sampled from:

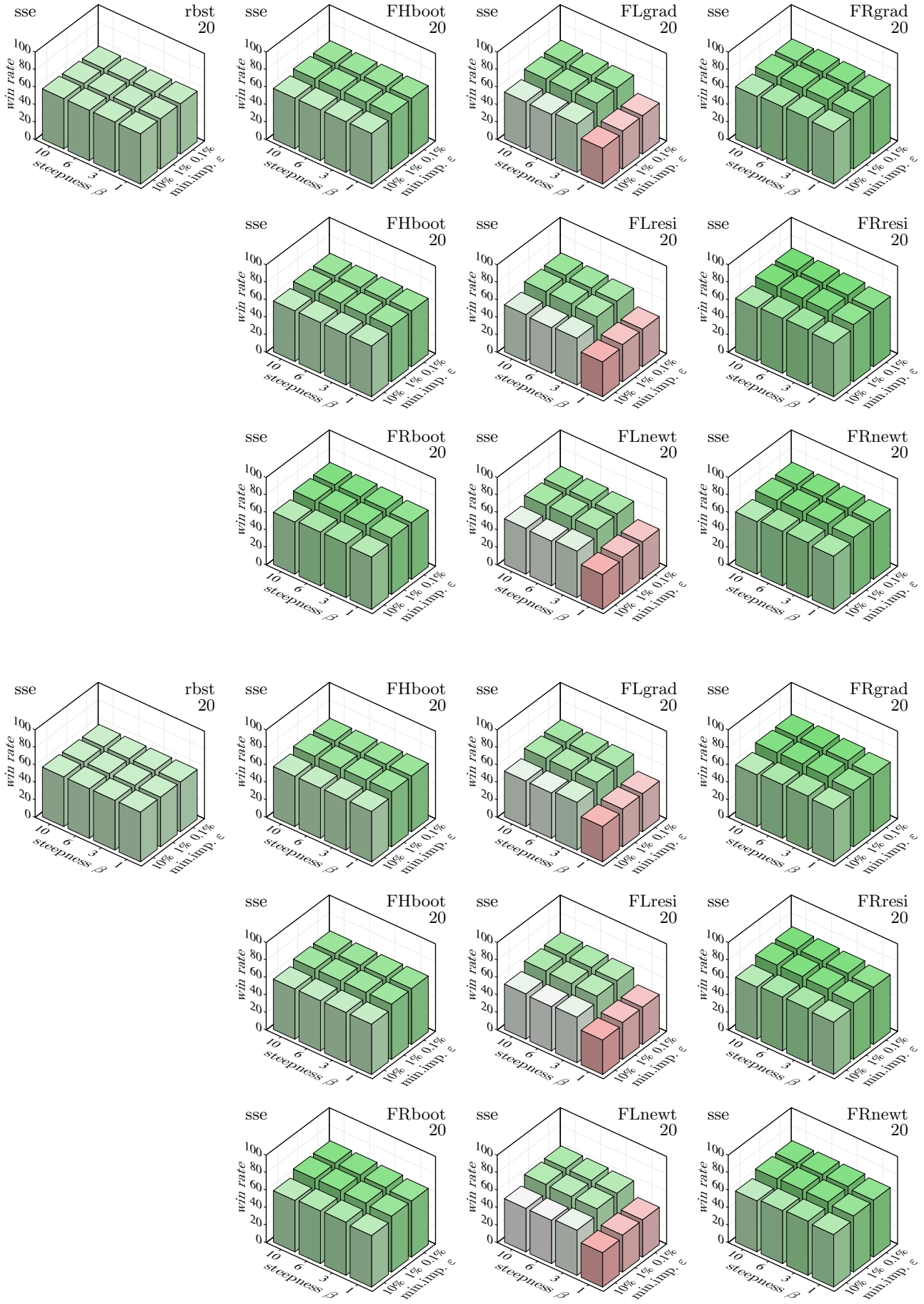


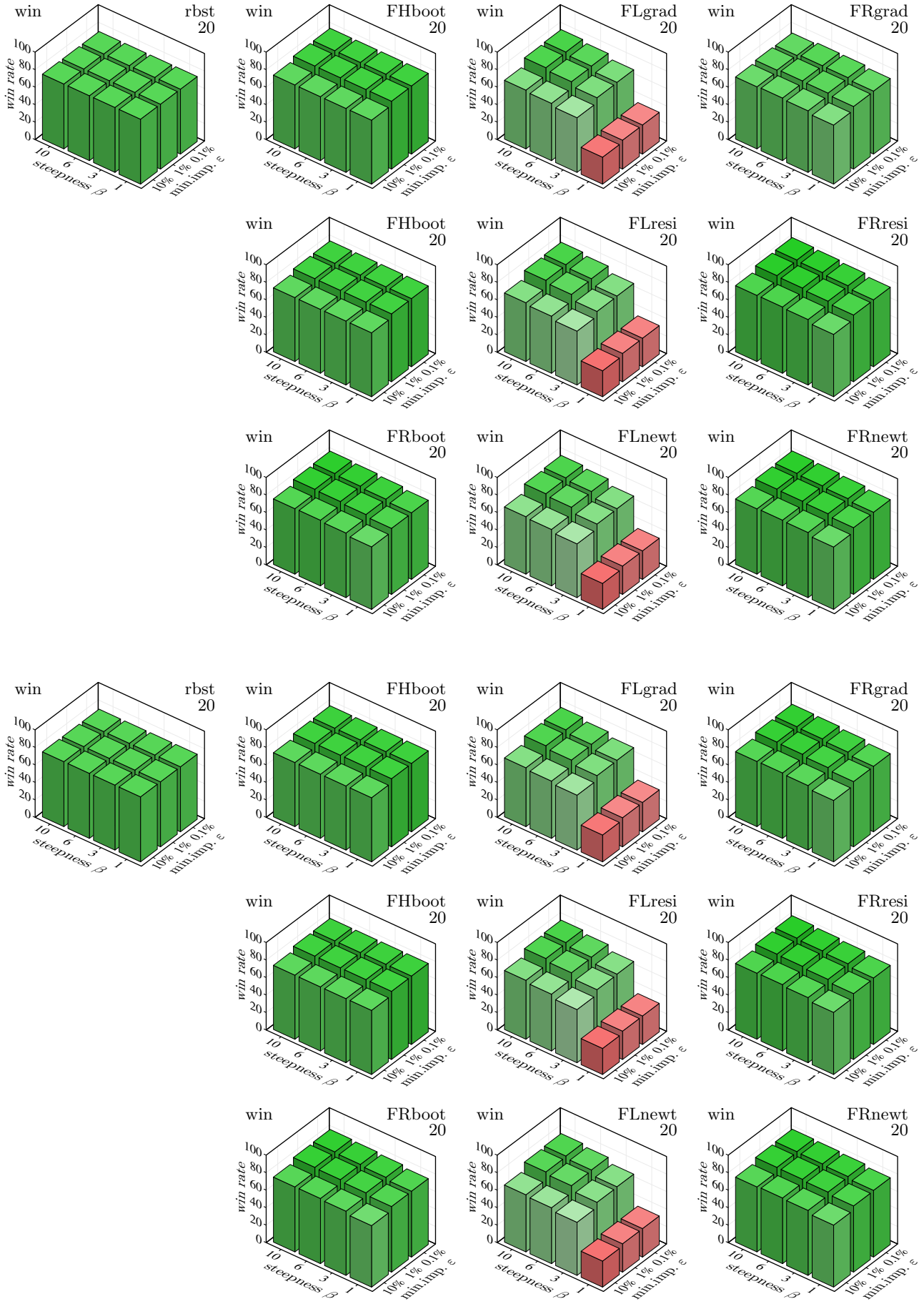


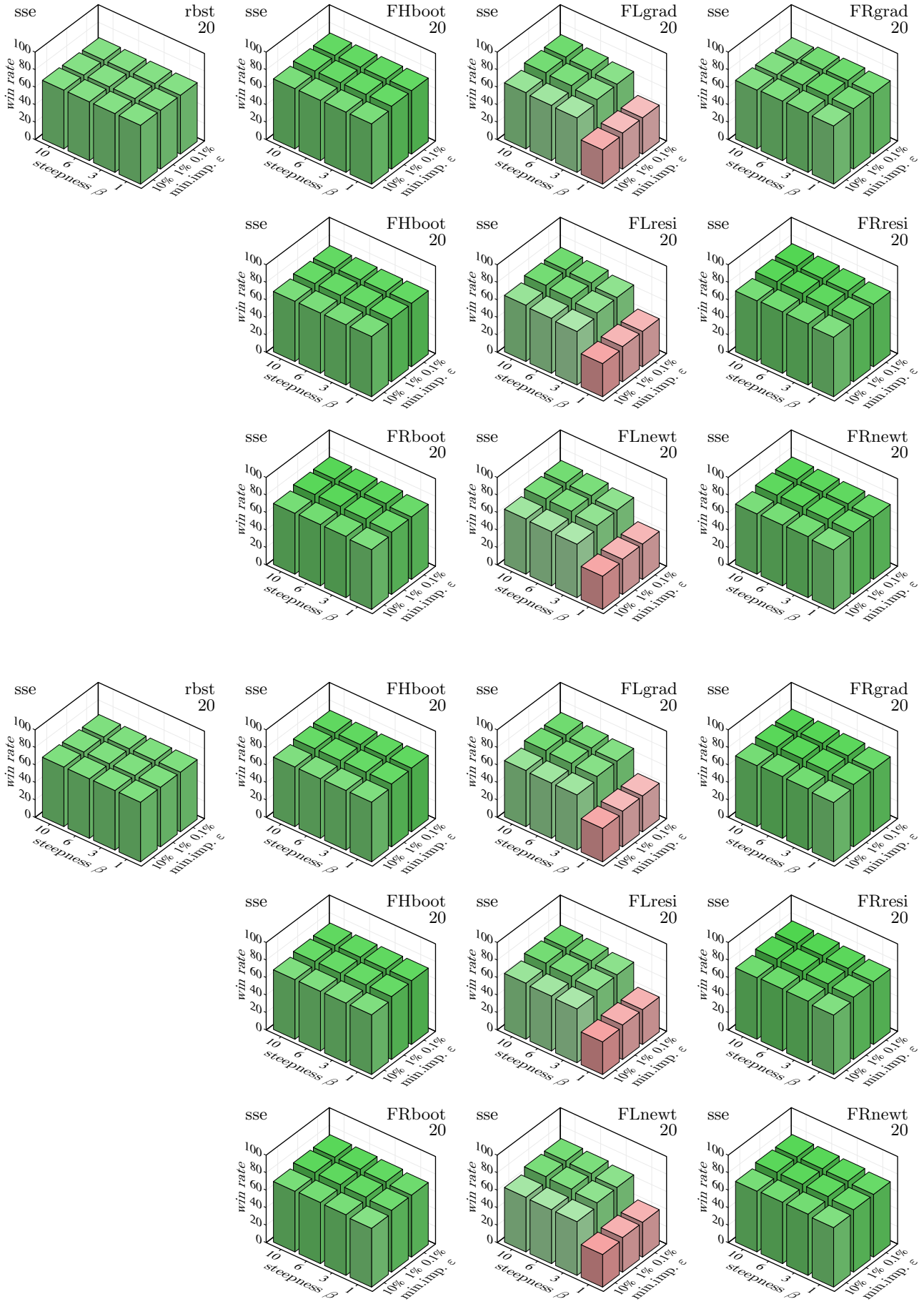

win
rbst
20
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
steepness β
min.imp. ε

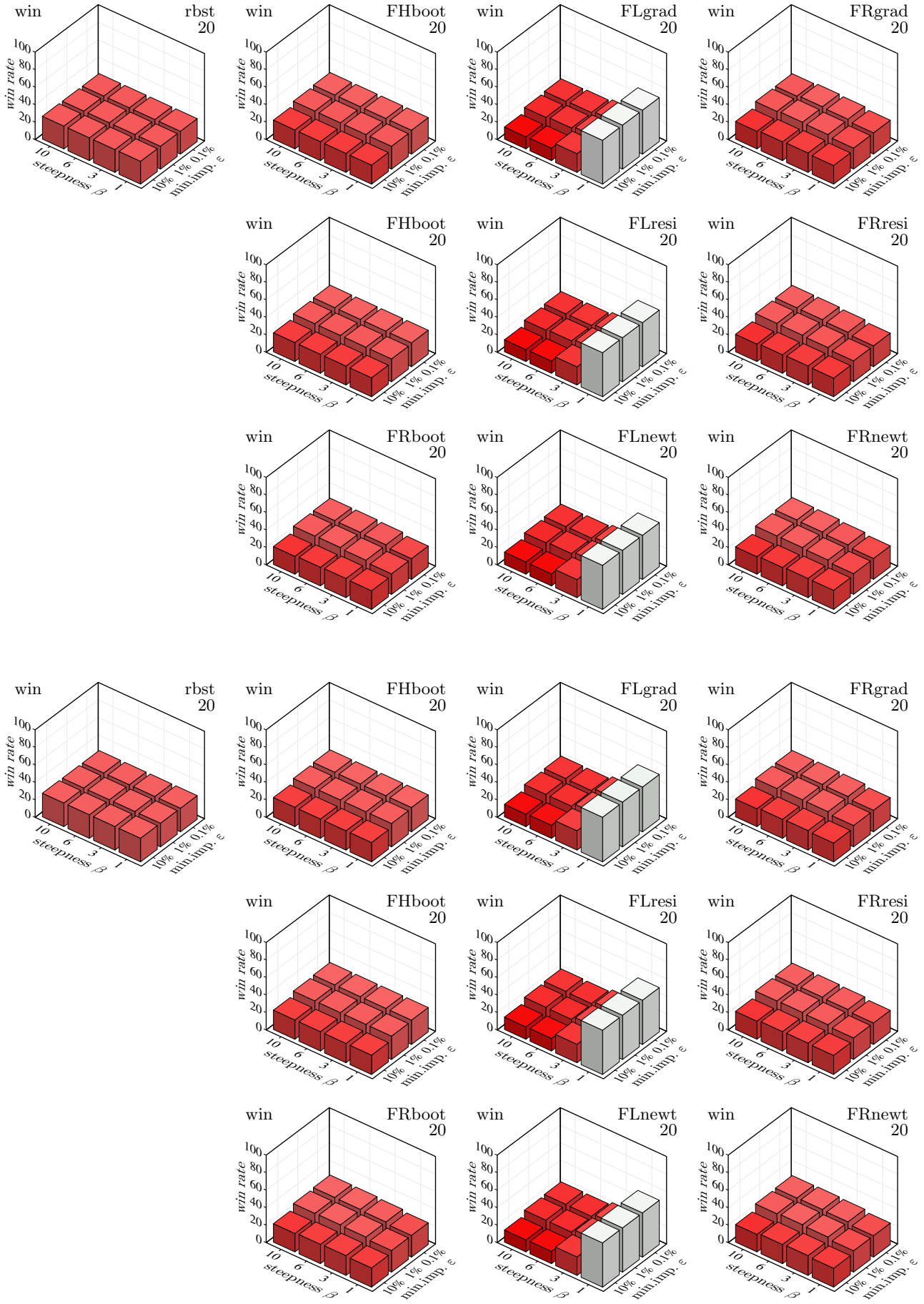

sse
rbst
20
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%

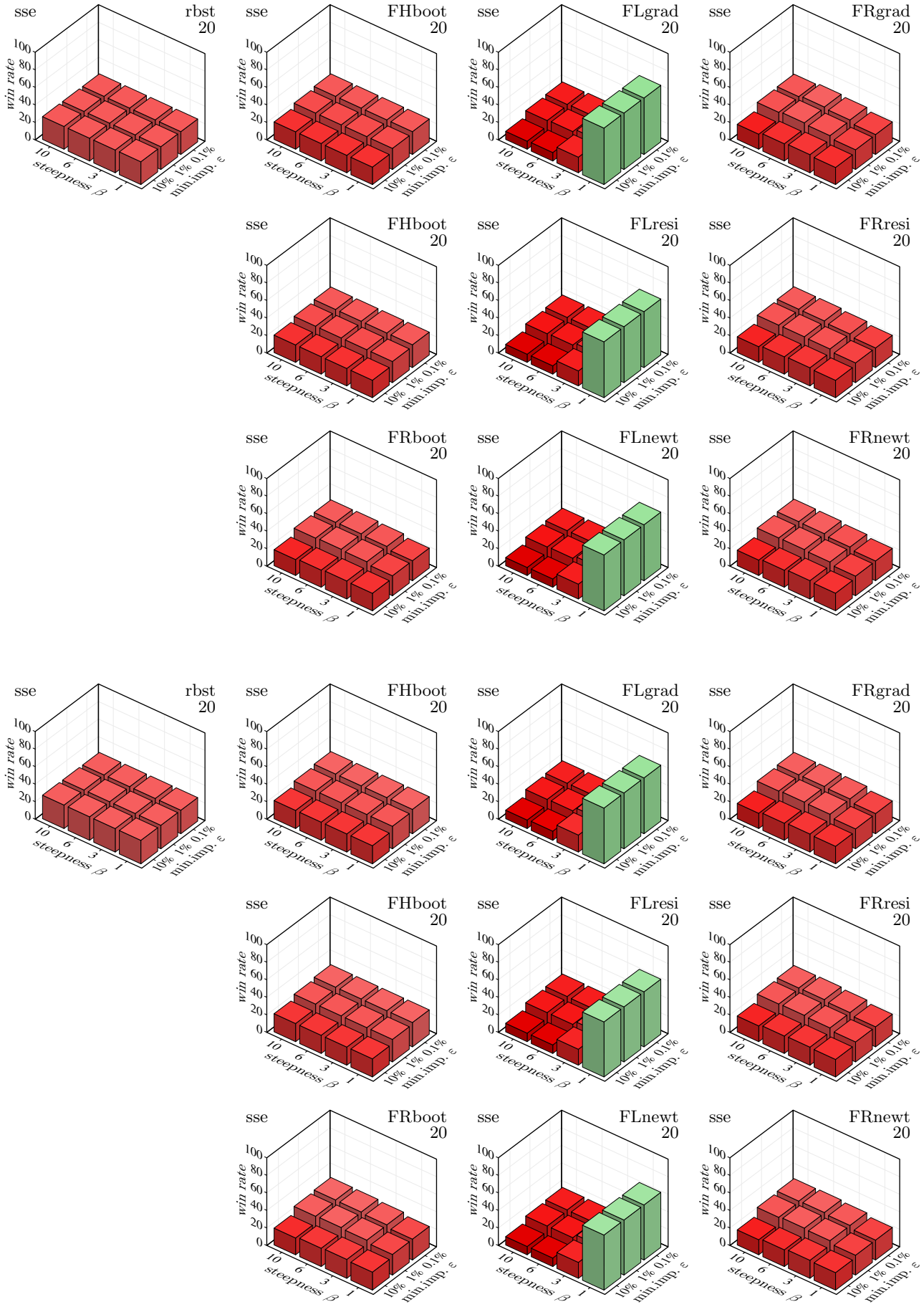

win
rbst
20
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%

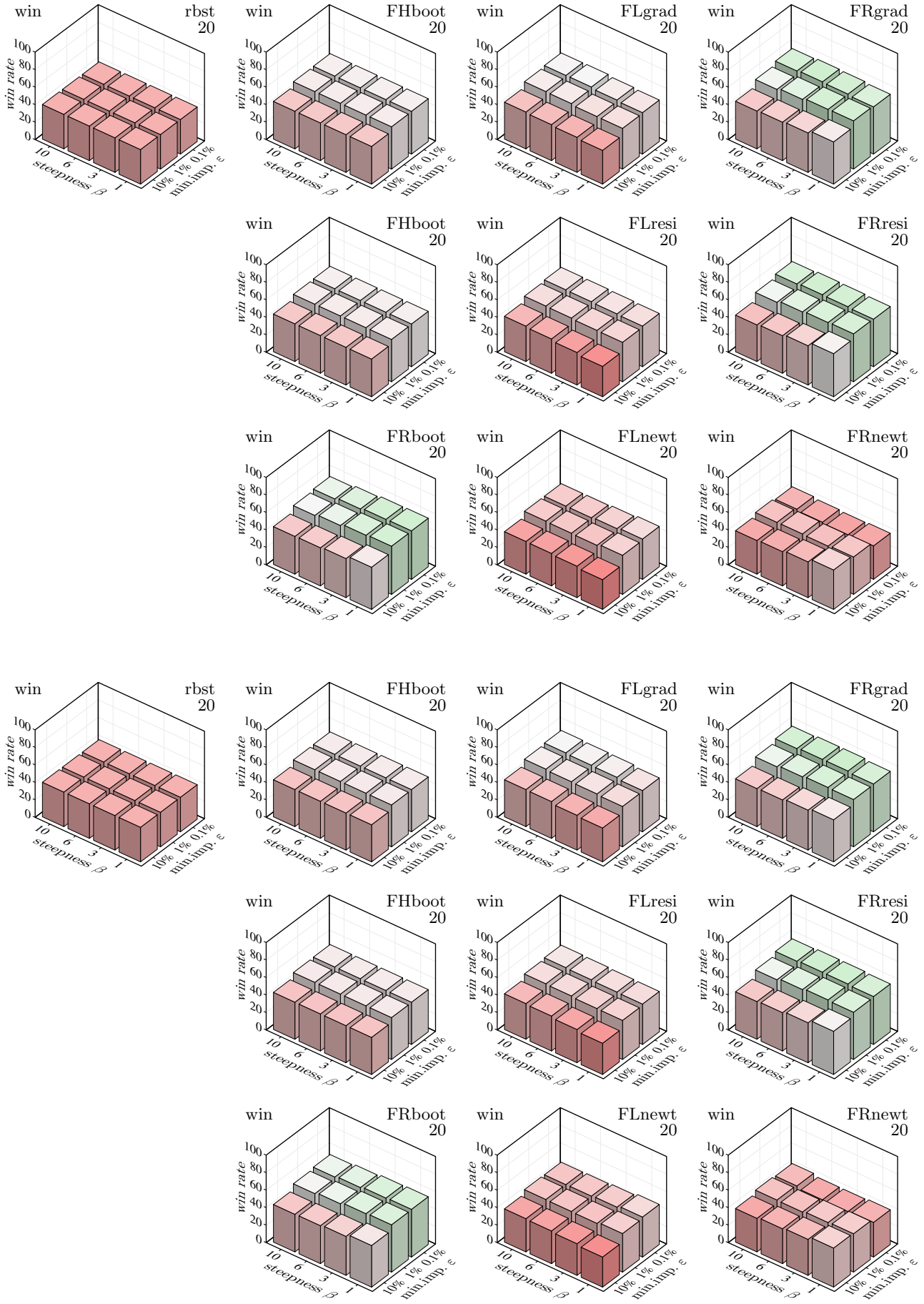

sse
rbst 20
FHboot 20
FLgrad 20
FRgrad 20
FHboot 20
FLresi 20
FRresi 20
FRboot 20
FLnewt 20
FRnewt 20
win rate
0 20 40 60 80 100
steepness β
10 6 3 1
min.imp. ε
10% 1% 0.1%
sse
rbst 20
FHboot 20
FLgrad 20
FRgrad 20
FHboot 20
FLresi 20
FRresi 20
FRboot 20
FLnewt 20
FRnewt 20
win rate
0 20 40 60 80 100
steepness β
10 6 3 1
min.imp. ε
10% 1% 0.1%

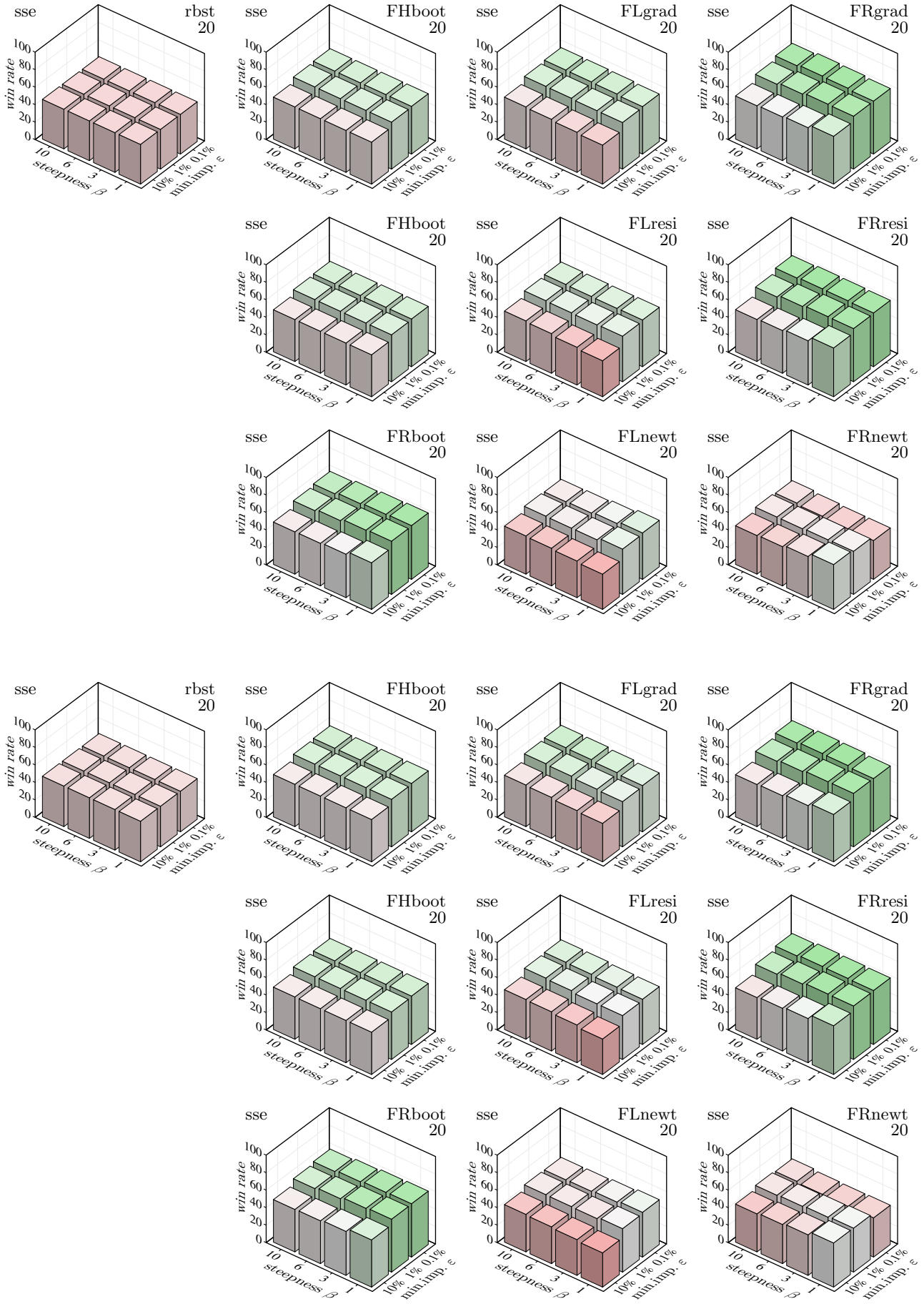

win
rbst
20
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
100
80
60
40
20
0
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%

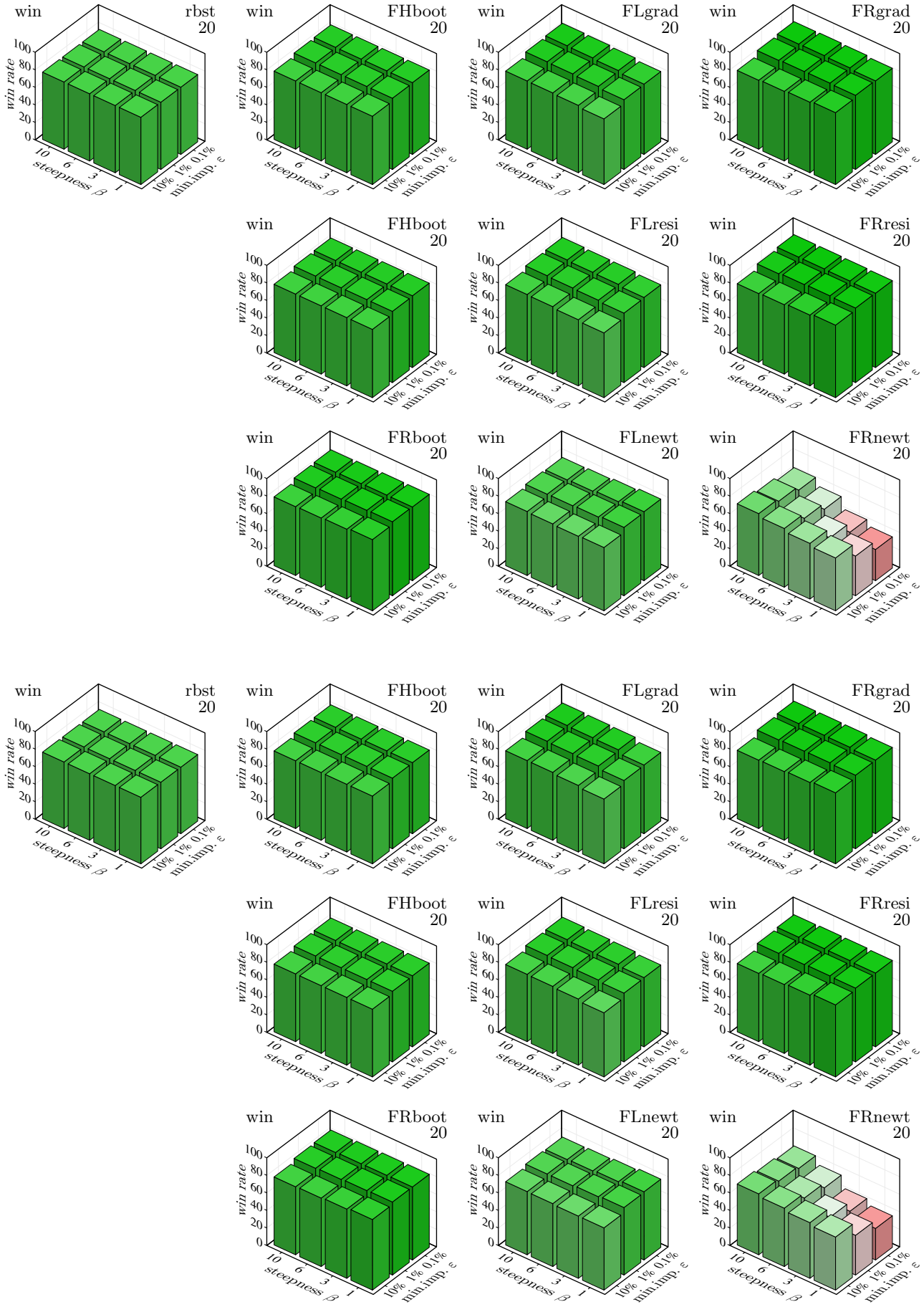

sse
rbst
20
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%

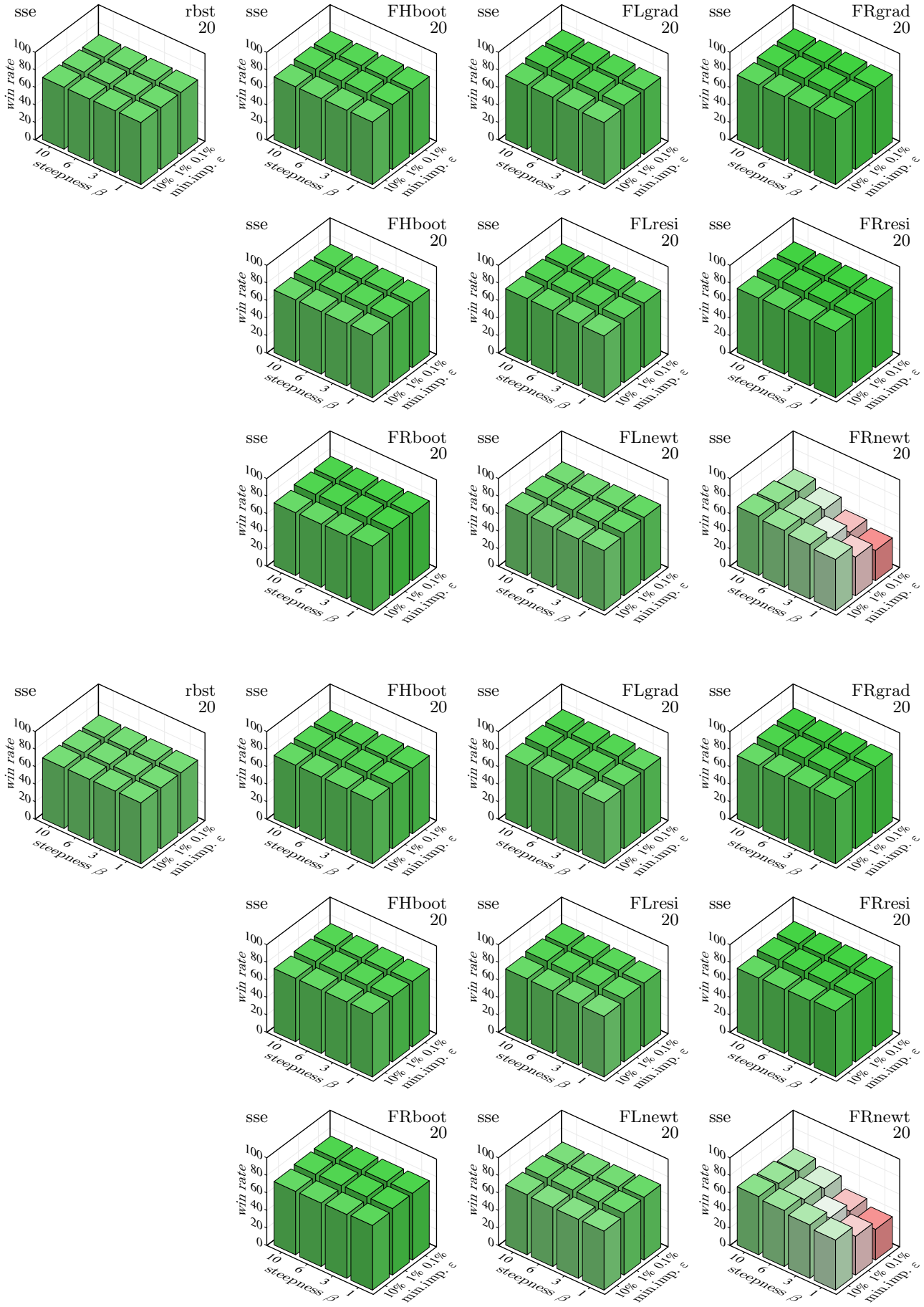

win
rbst
20
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
100
80
60
40
20
0
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%

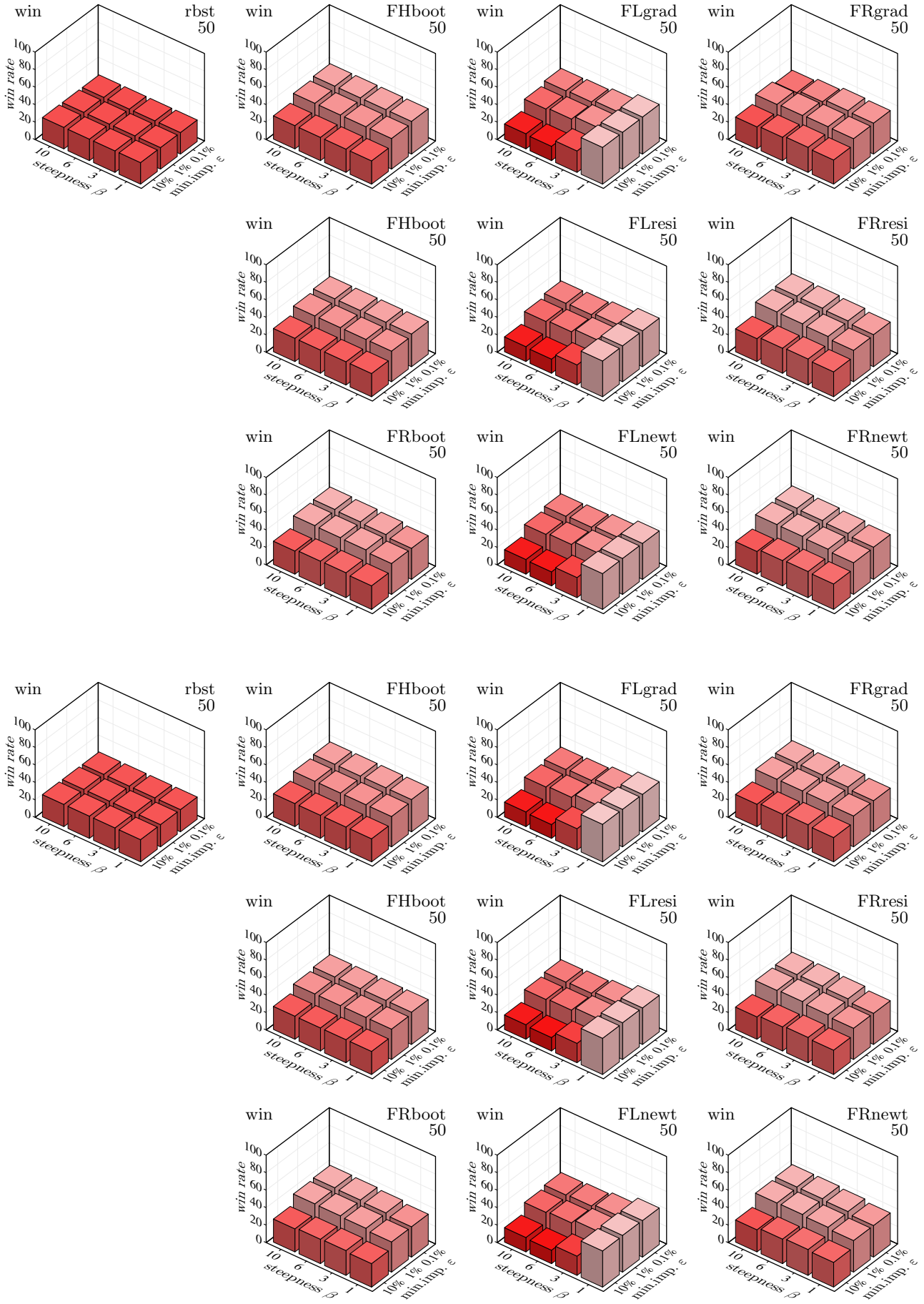

sse
rbst
20
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
100
80
60
40
20
0
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%

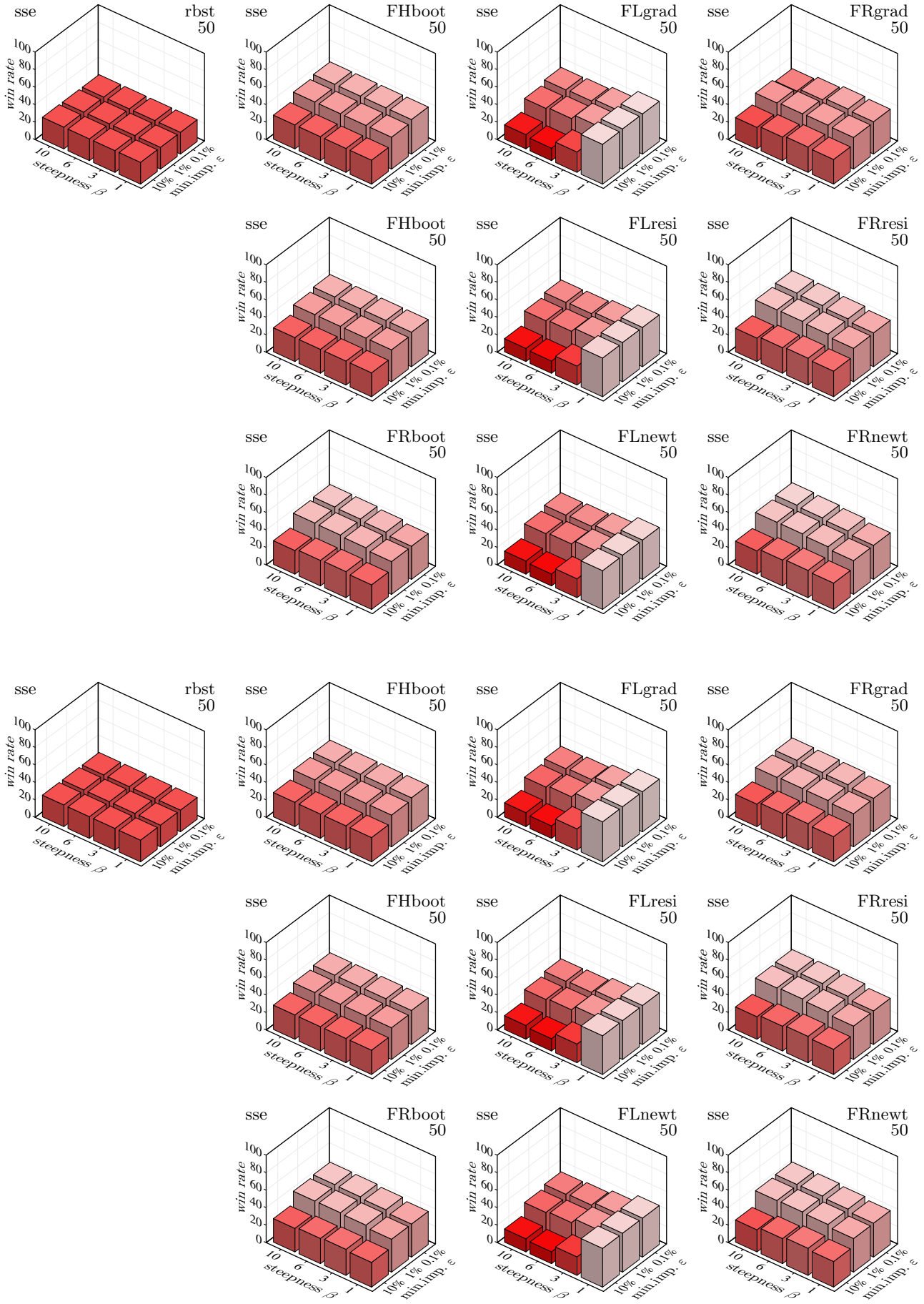

win
rbst
20
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%

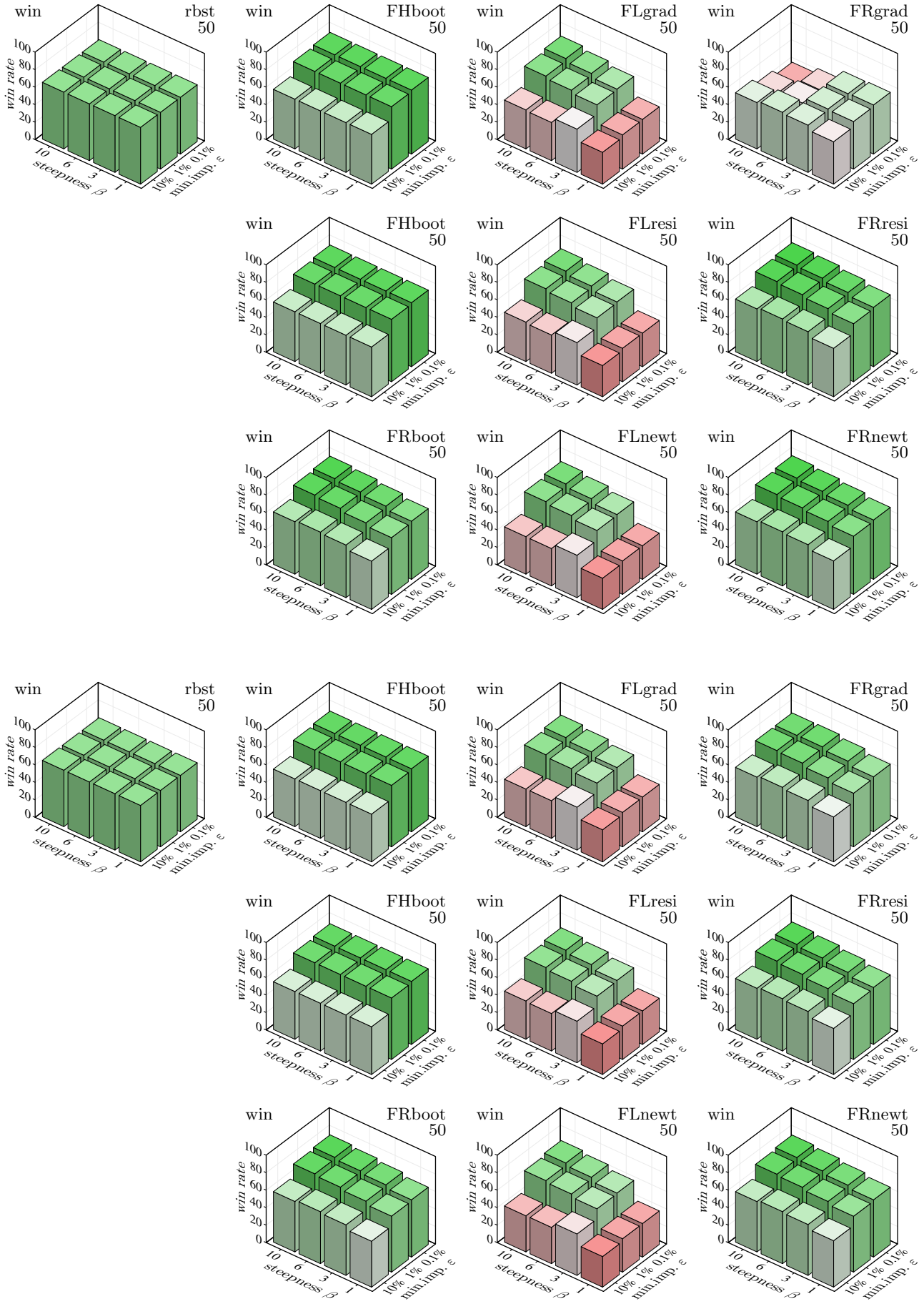

sse
rbst
20
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
steepness β
min.imp. ε

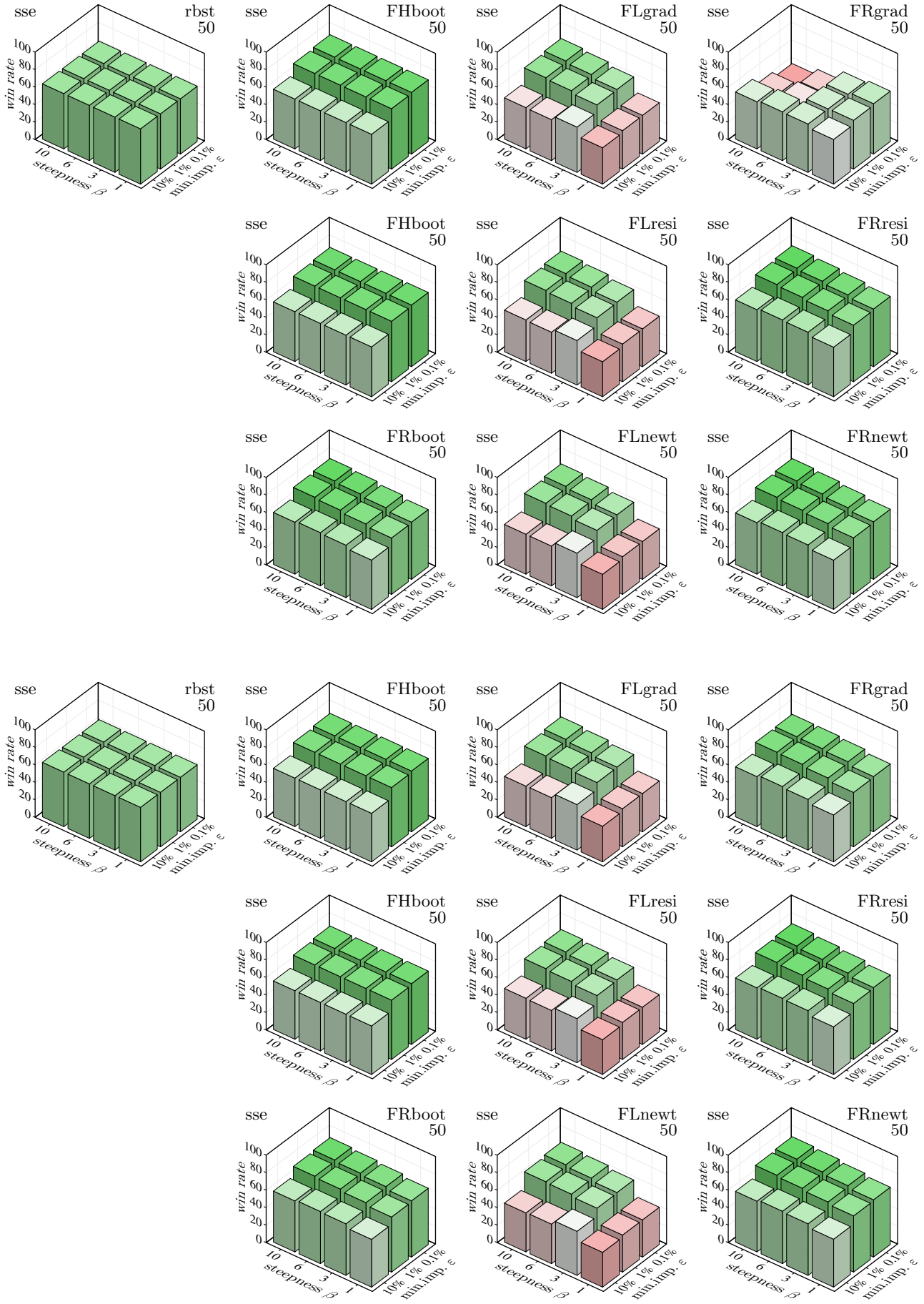

win
rbst
20
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
100
80
60
40
20
0
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%

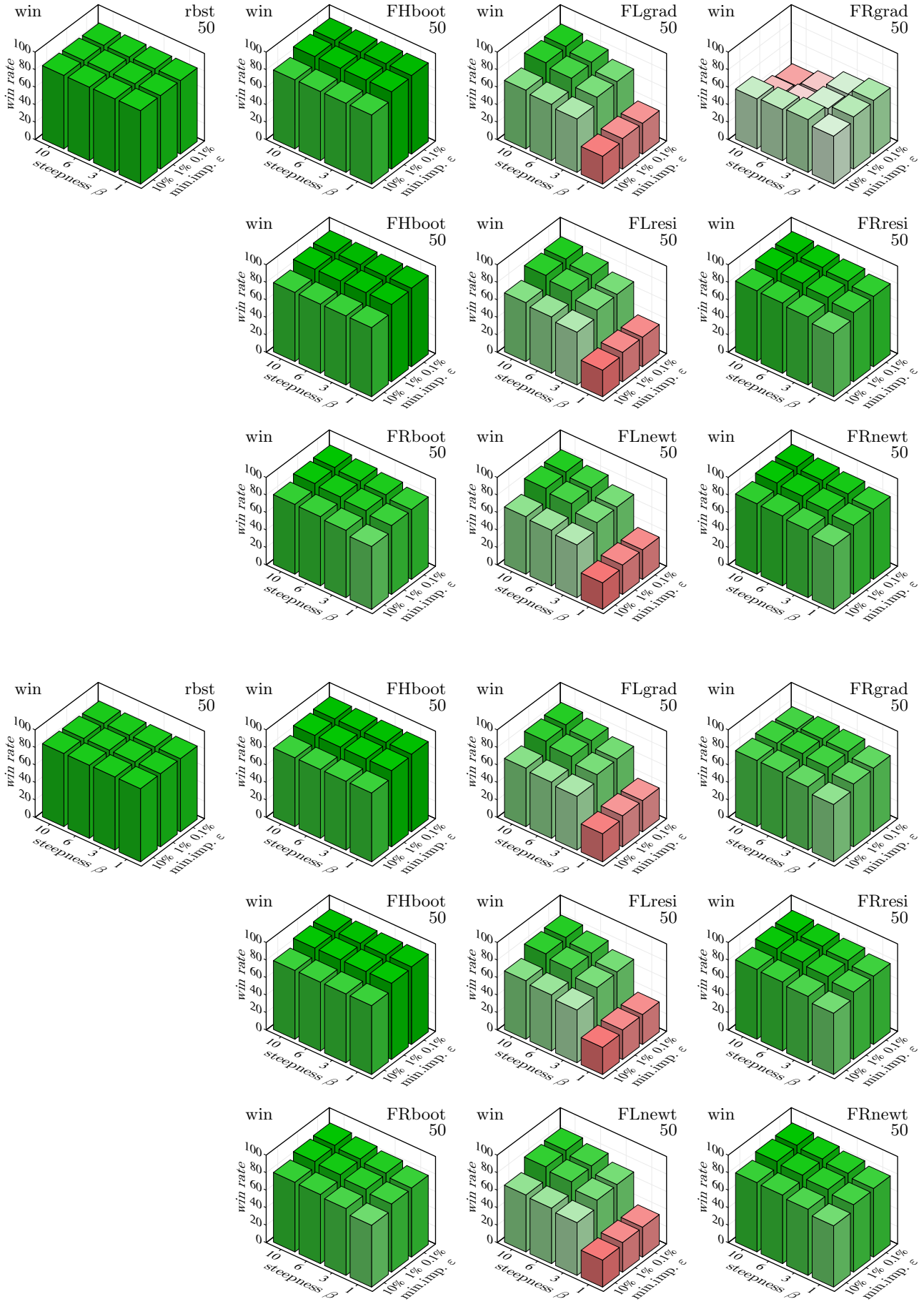

sse
rbst
20
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
steepness β
min.imp. ε

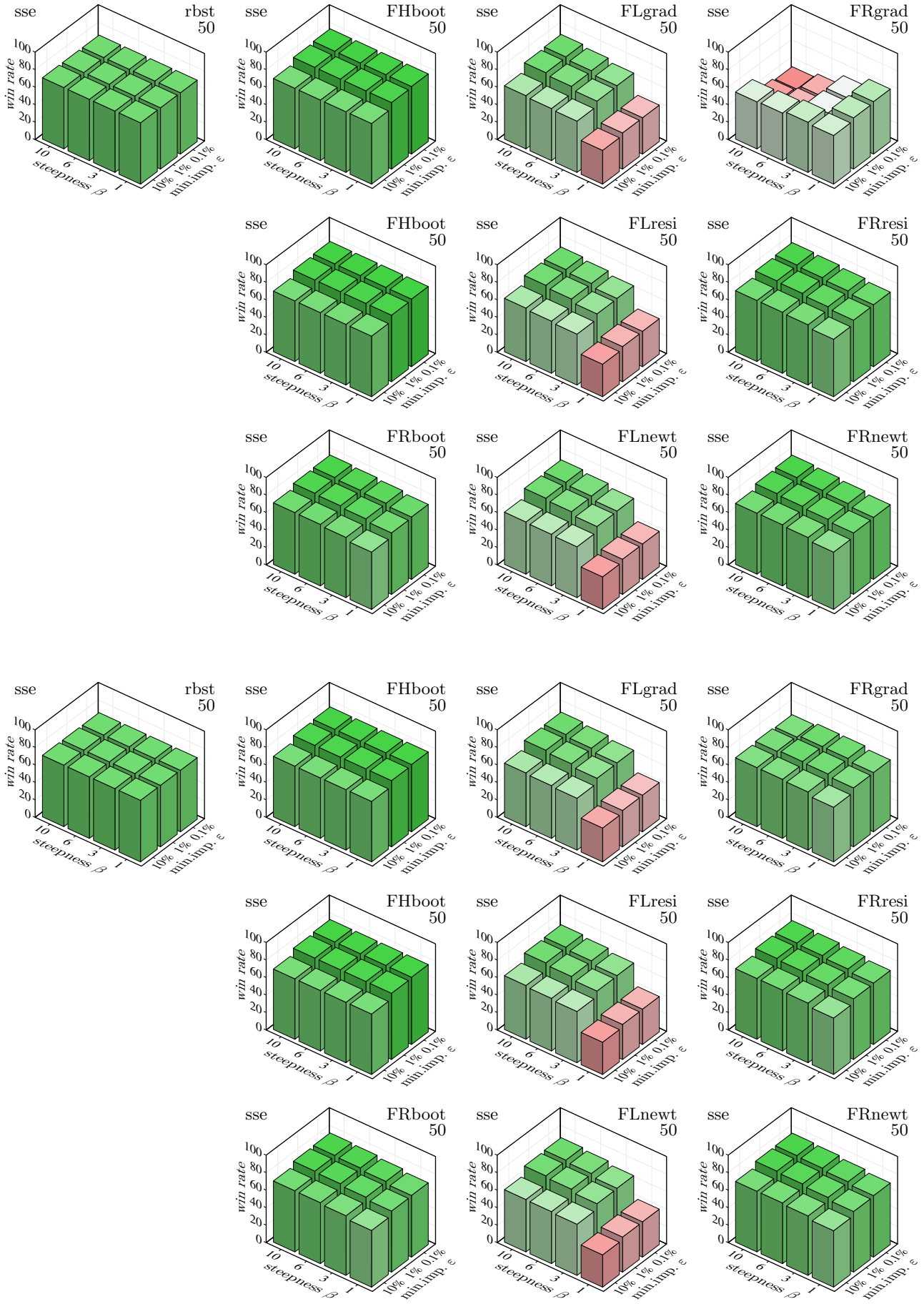

win
rbst
50
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
100
80
60
40
20
0
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%

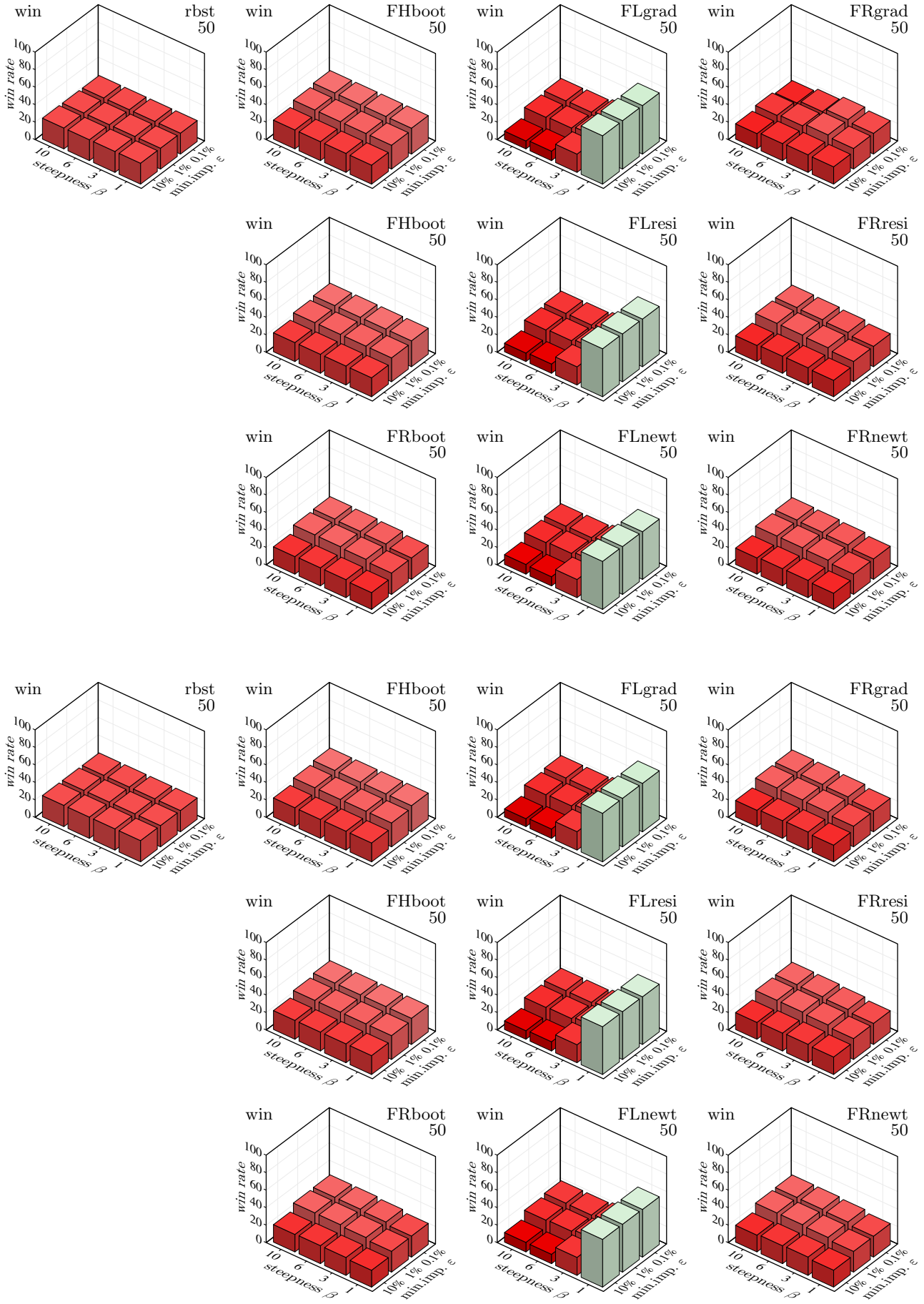

sse
rbst
50
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%

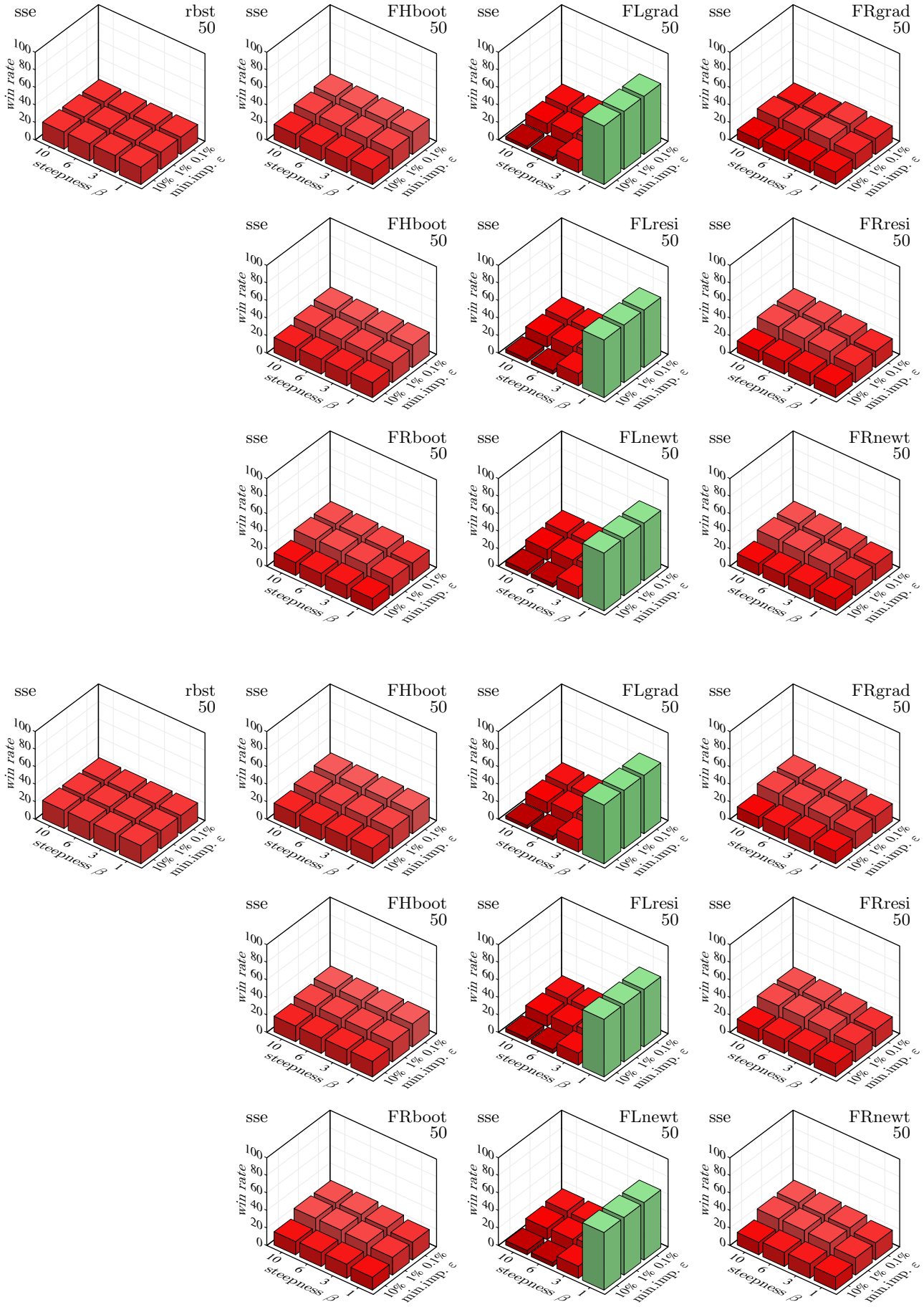

win
rbst
50
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
steepness β
min.imp. ε

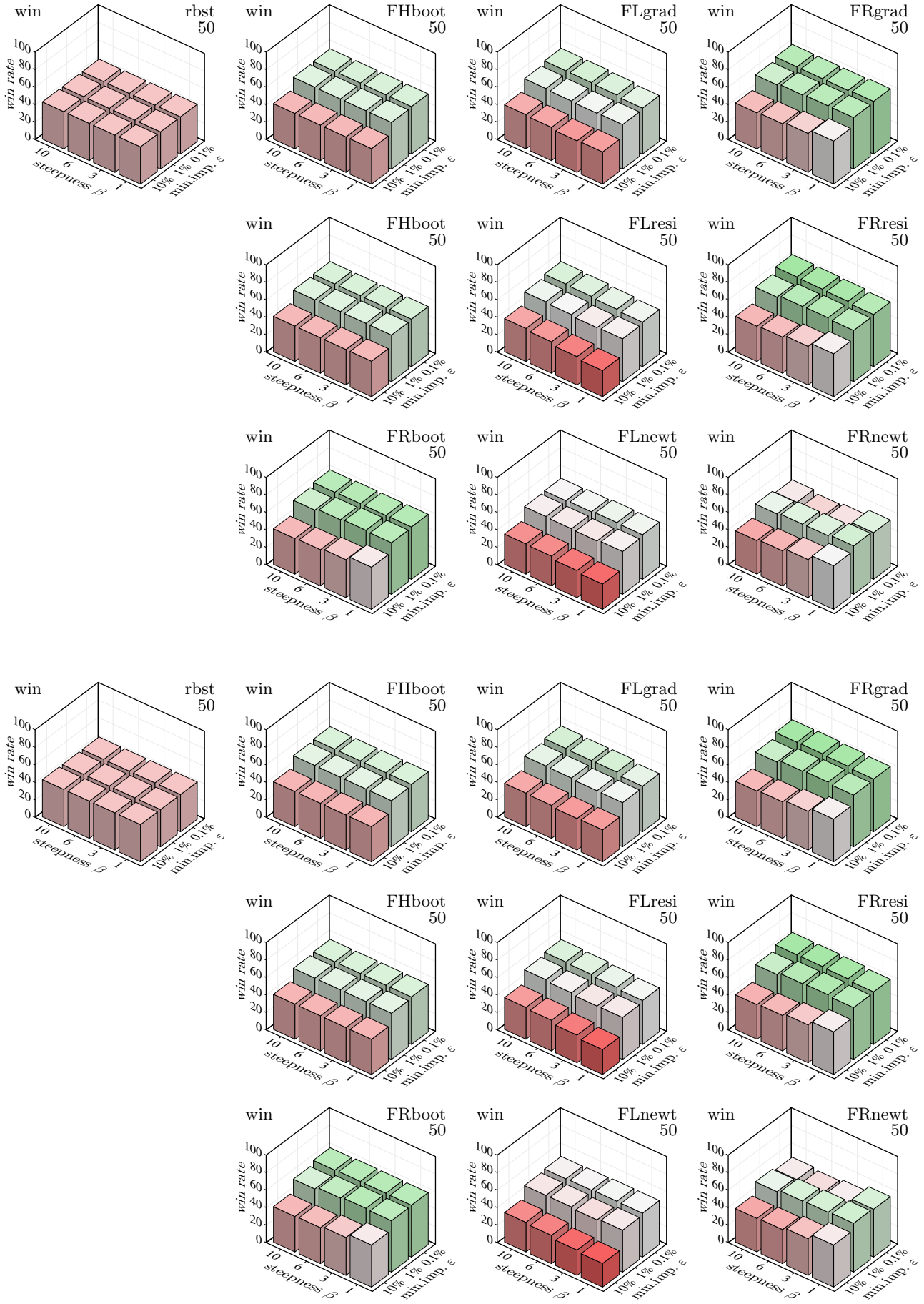

sse
rbst
50
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%

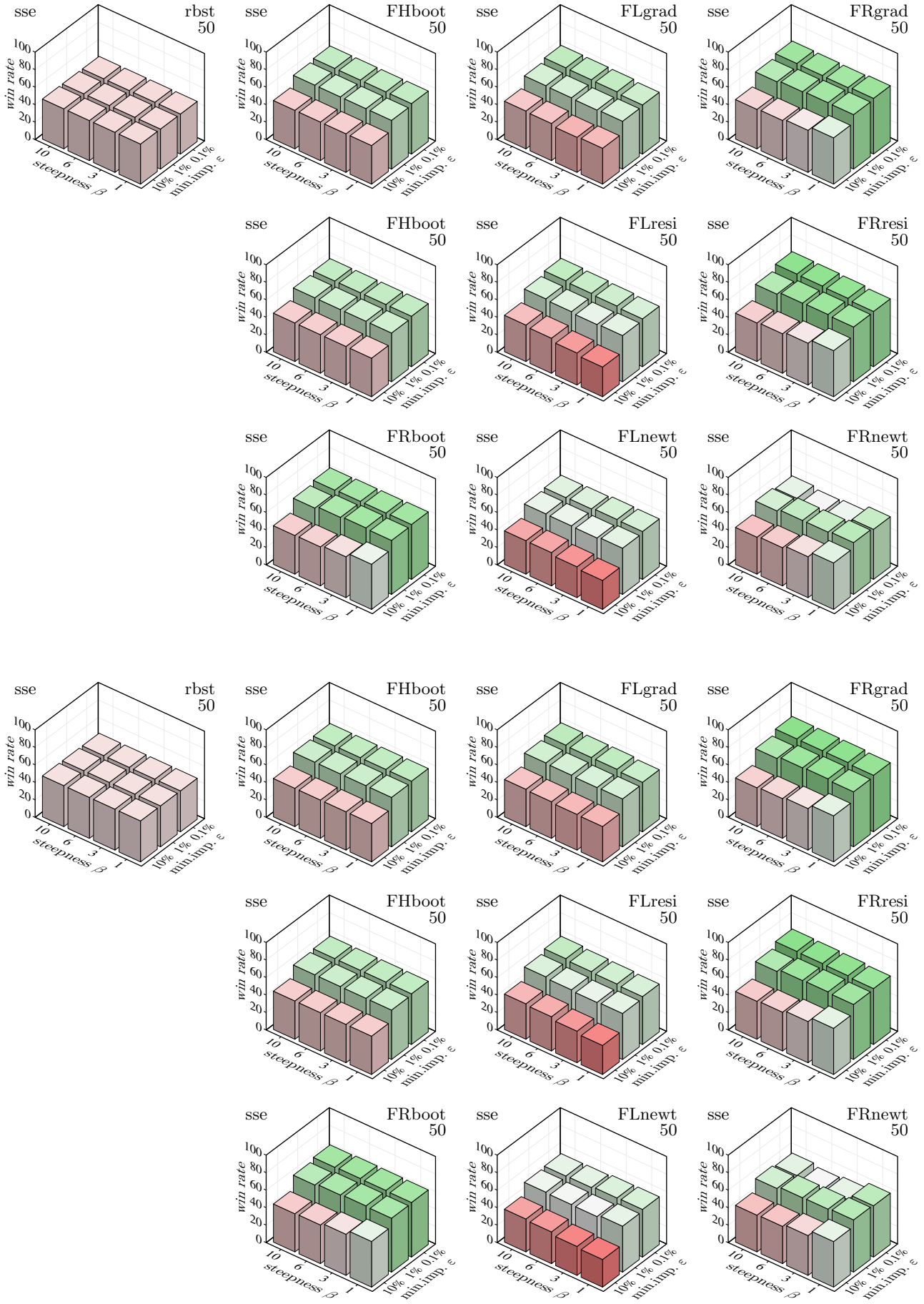

win
rbst
50
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
100
80
60
40
20
0
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%

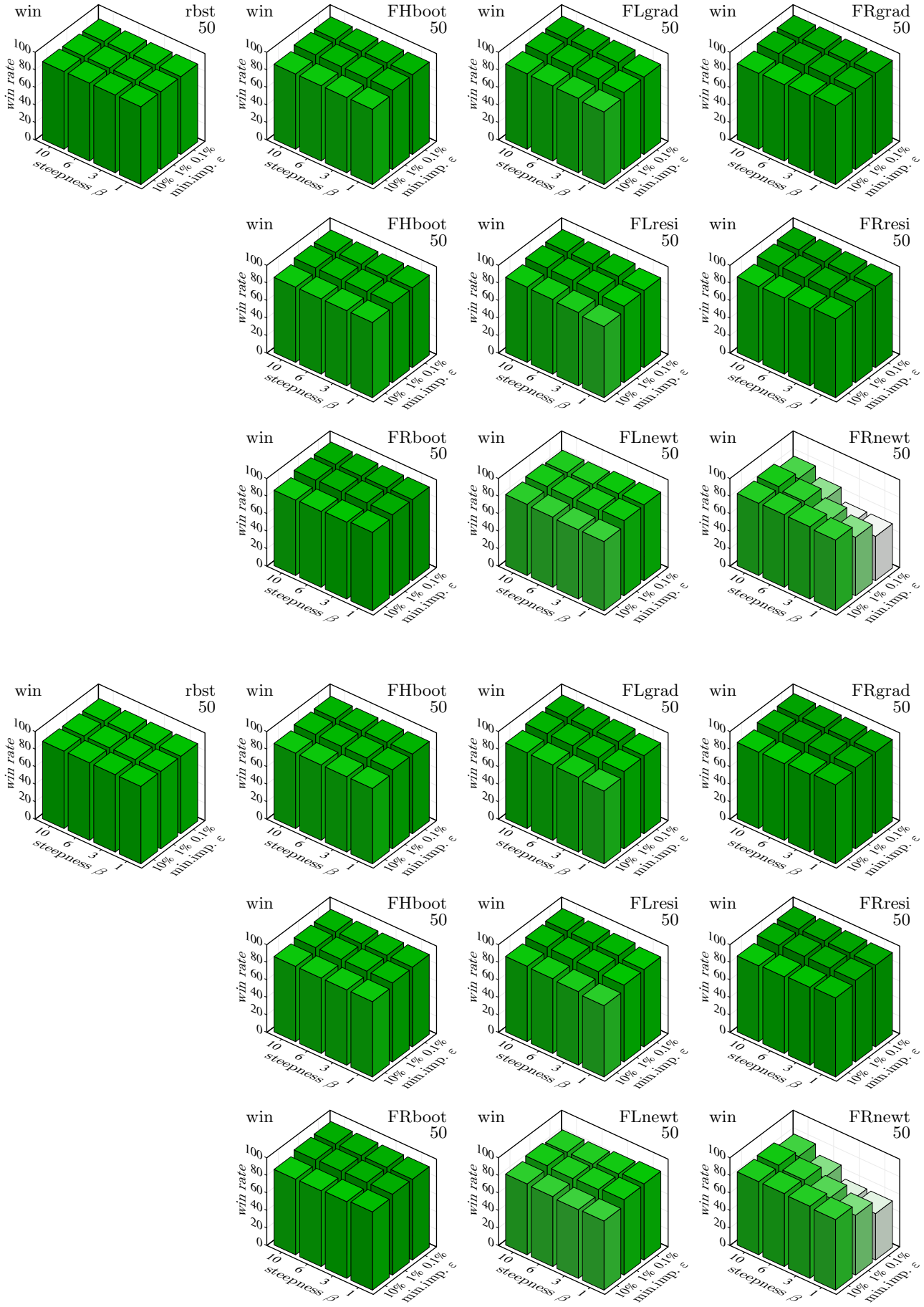

sse
rbst
50
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%

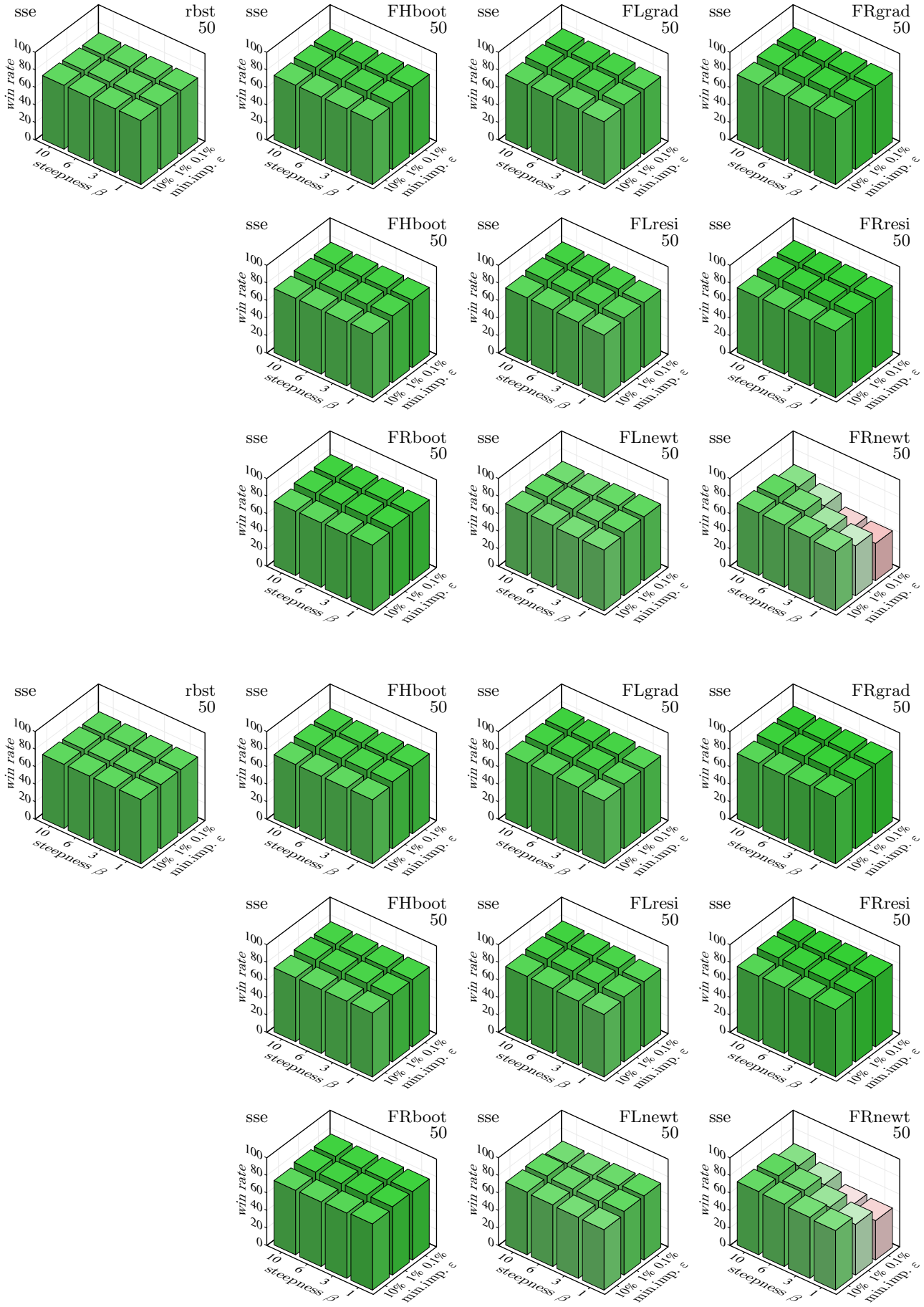

win
rbst
50
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%

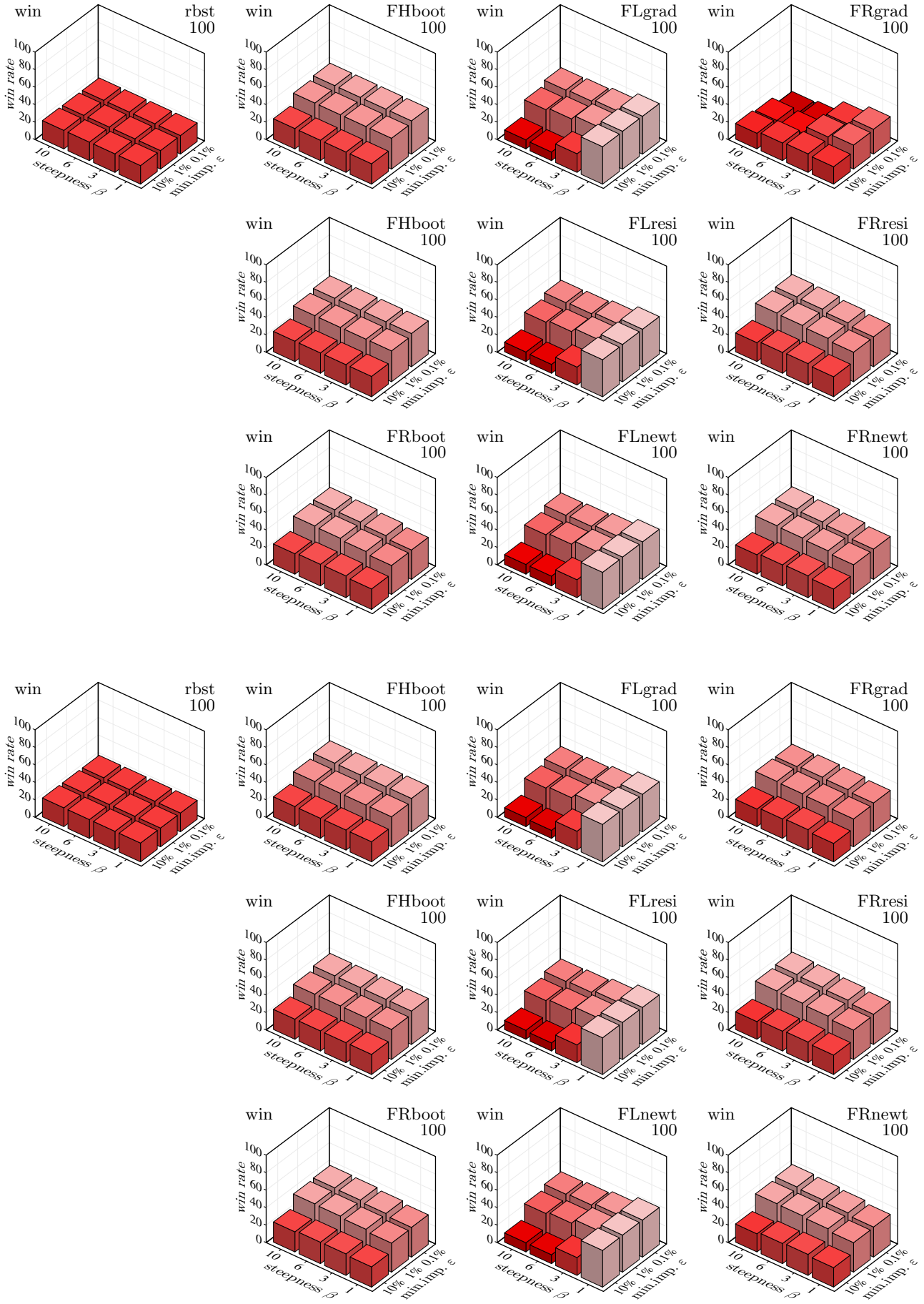

sse
rbst
50
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%

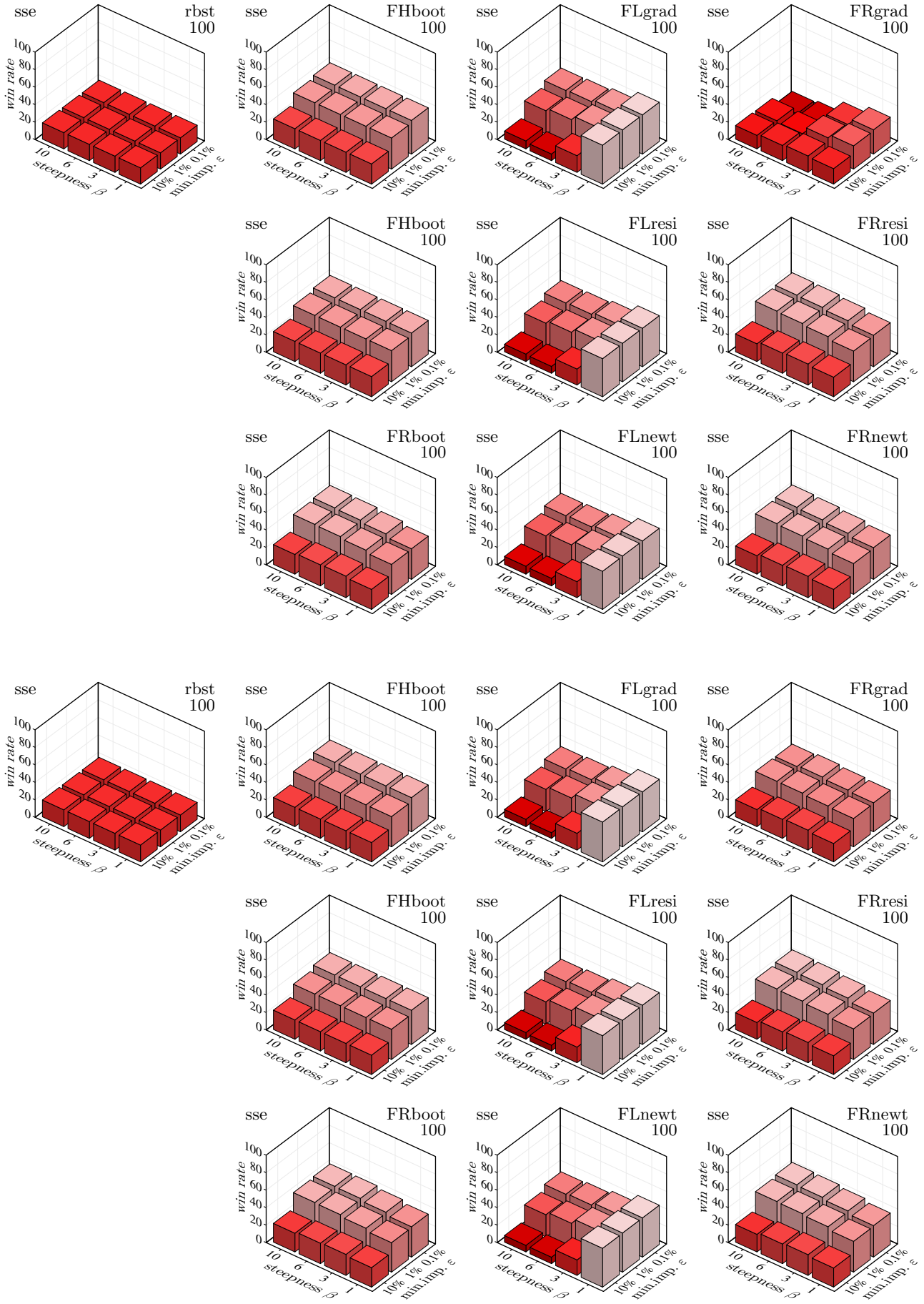

win
rbst
50
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
100
80
60
40
20
0
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%

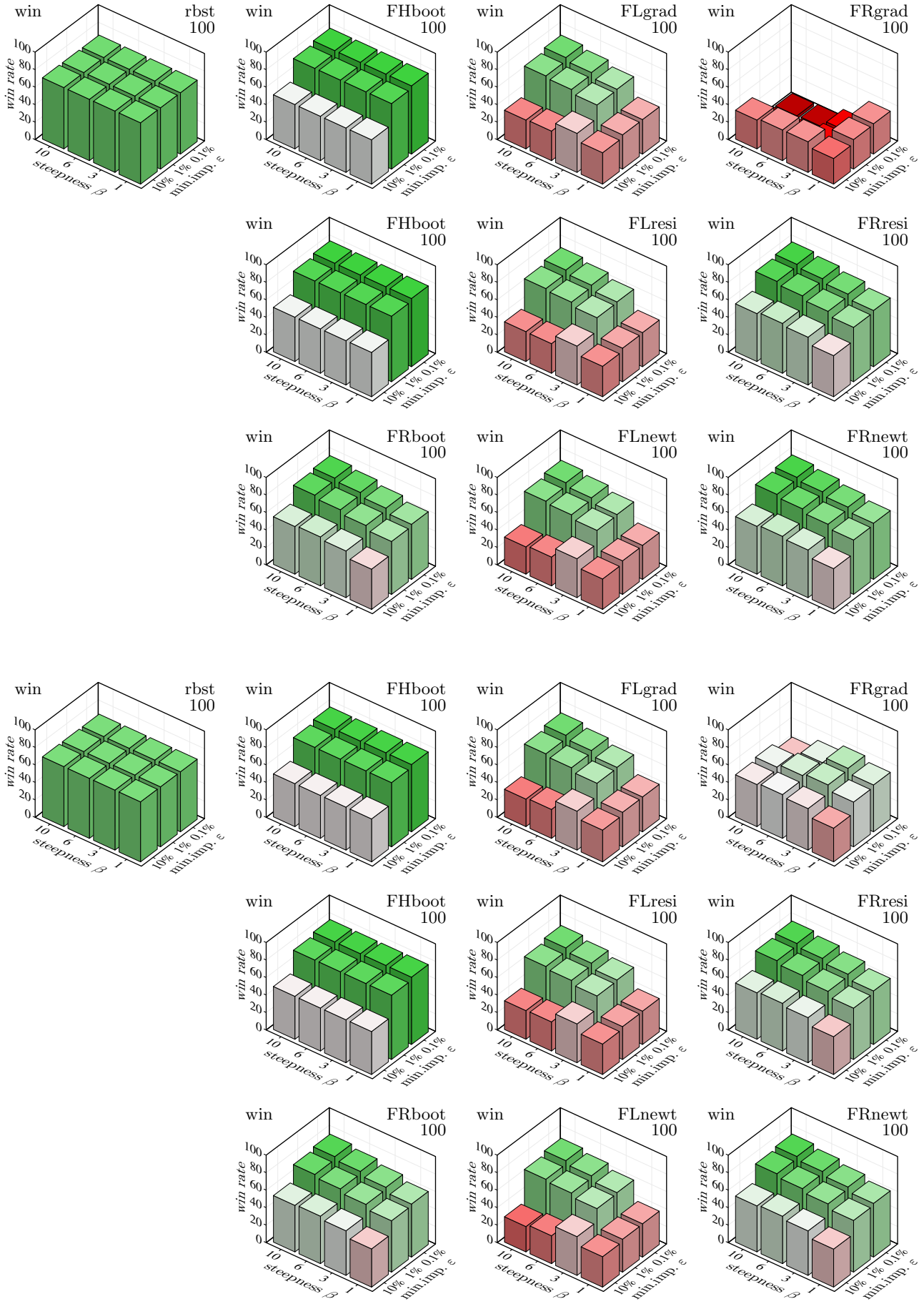

sse
rbst 50
FHboot 50
FLgrad 50
FRgrad 50
FLresi 50
FRresi 50
FRboot 50
FLnewt 50
FRnewt 50
win rate
0 20 40 60 80 100
steepness β
10 6 3 1
min.imp. ε
10% 1% 0.1%

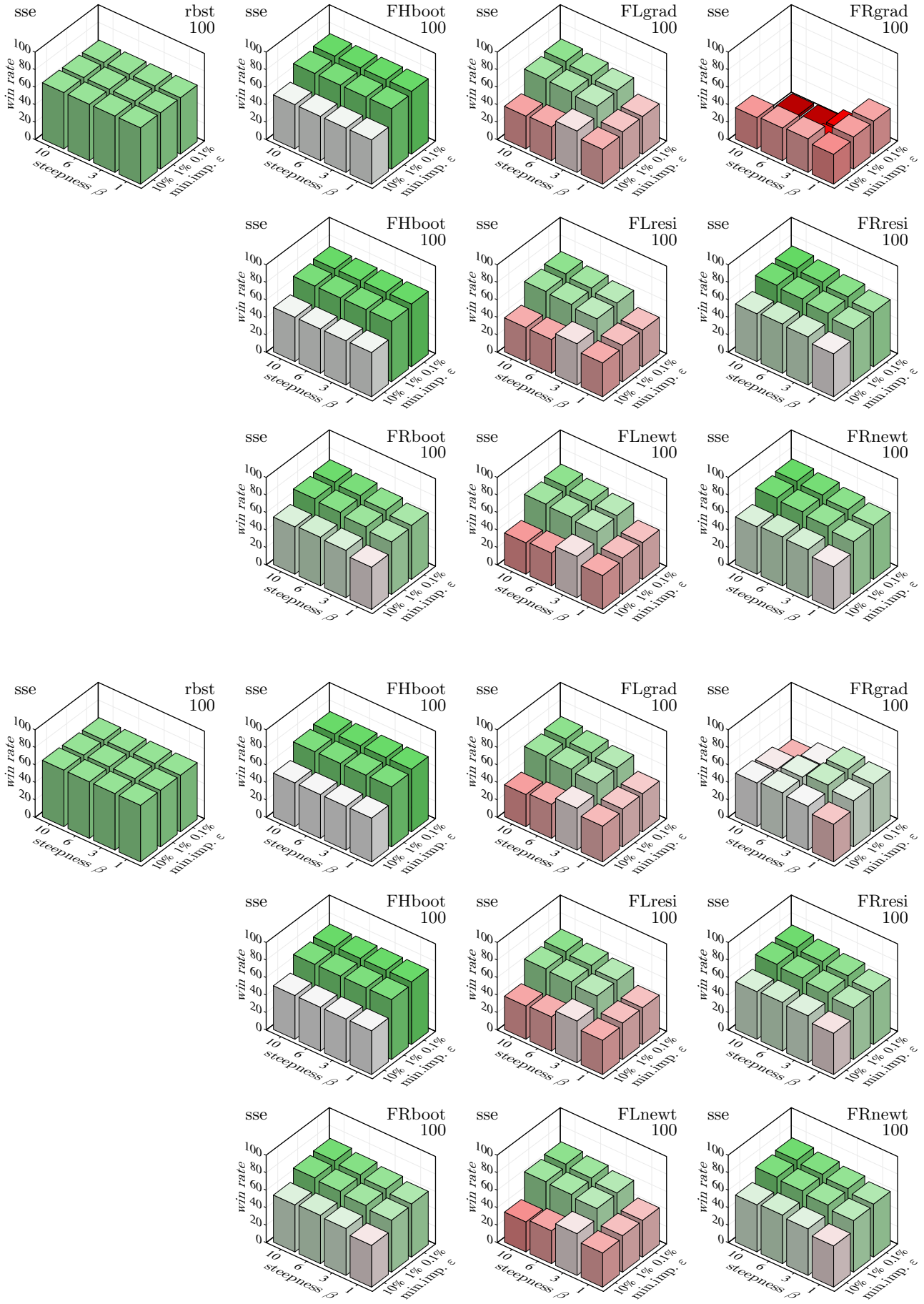

win
rbst
50
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
steepness β
min.imp. ε

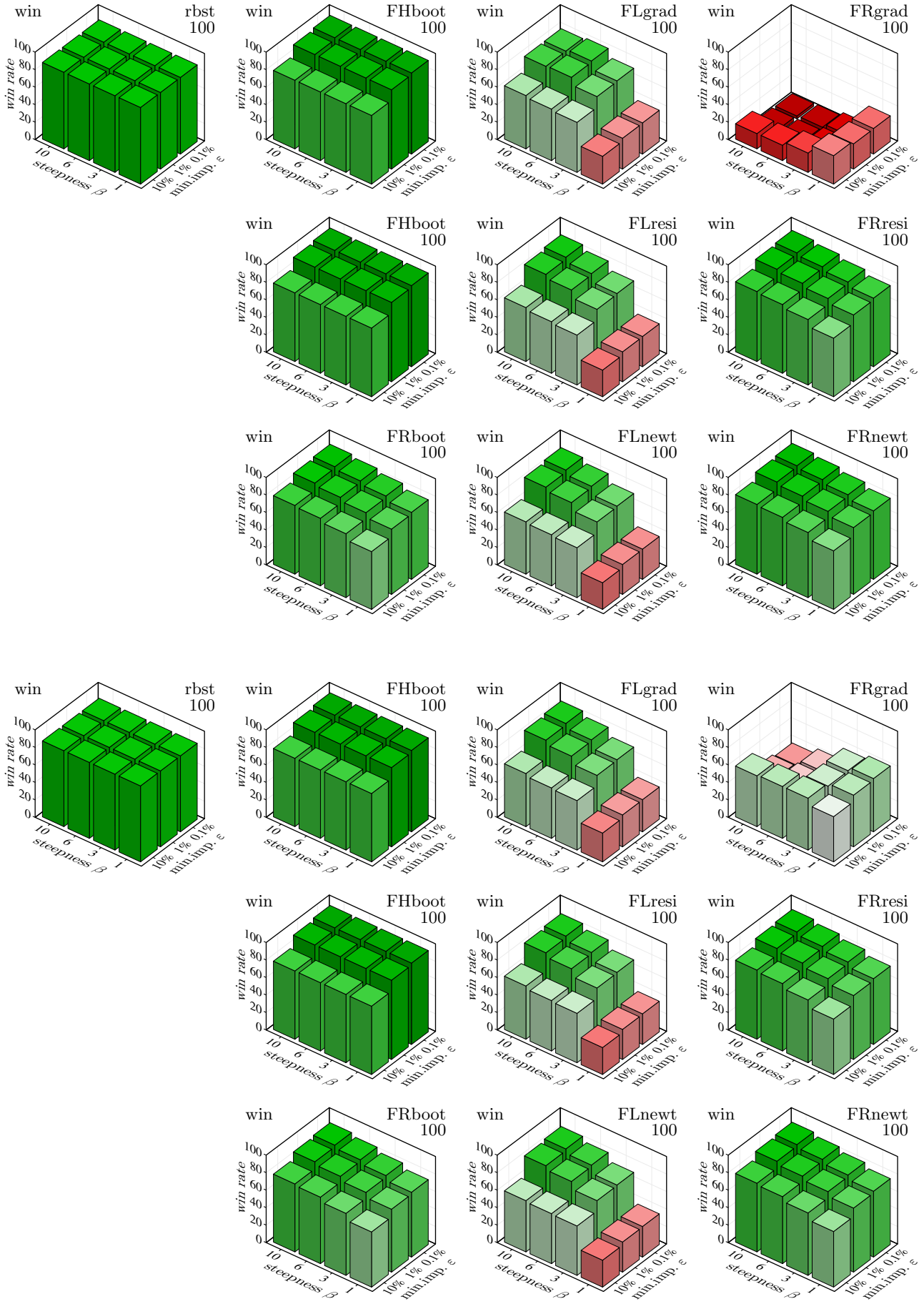

sse
rbst
50
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%

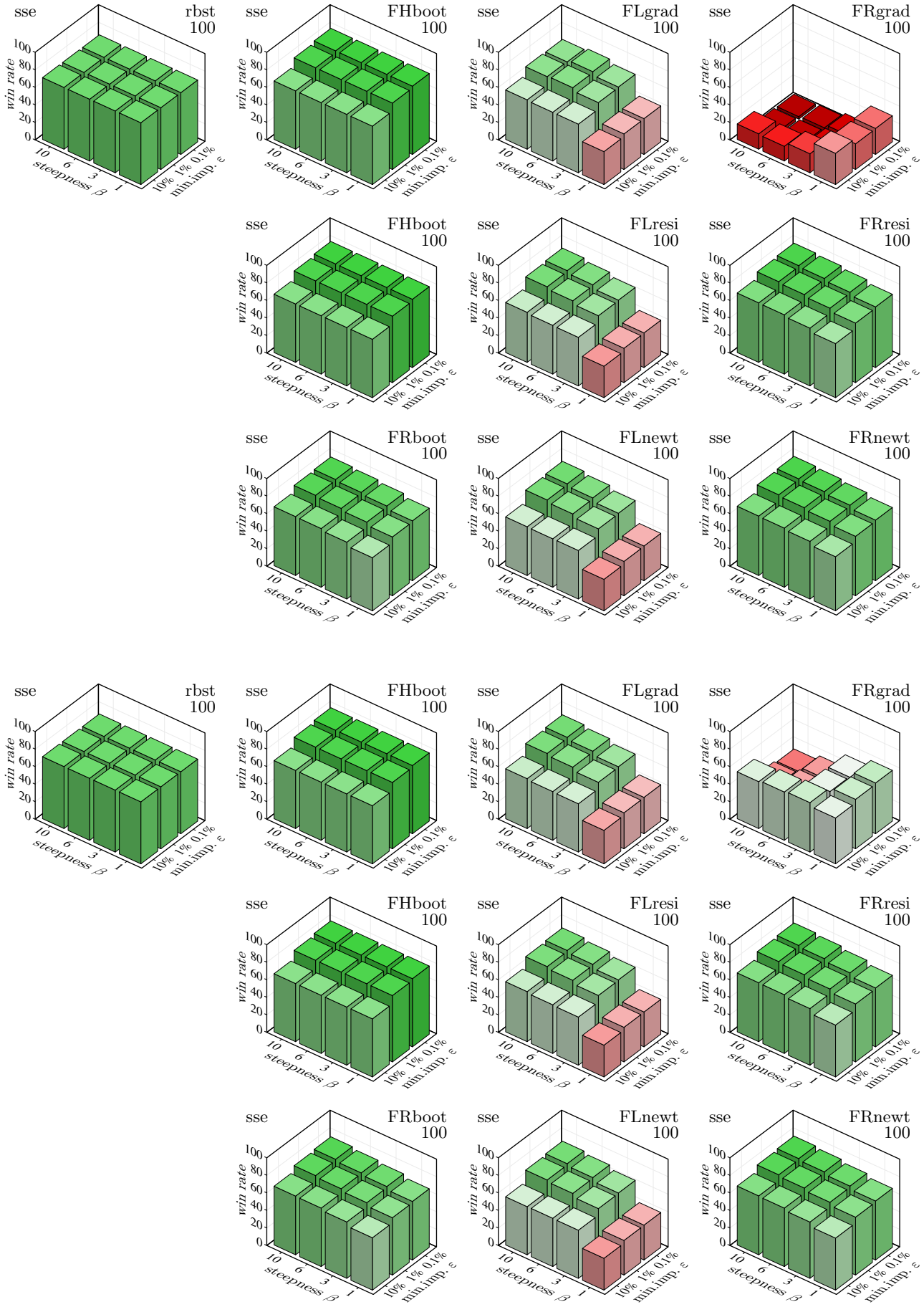

win
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
steepness β
min.imp. ε

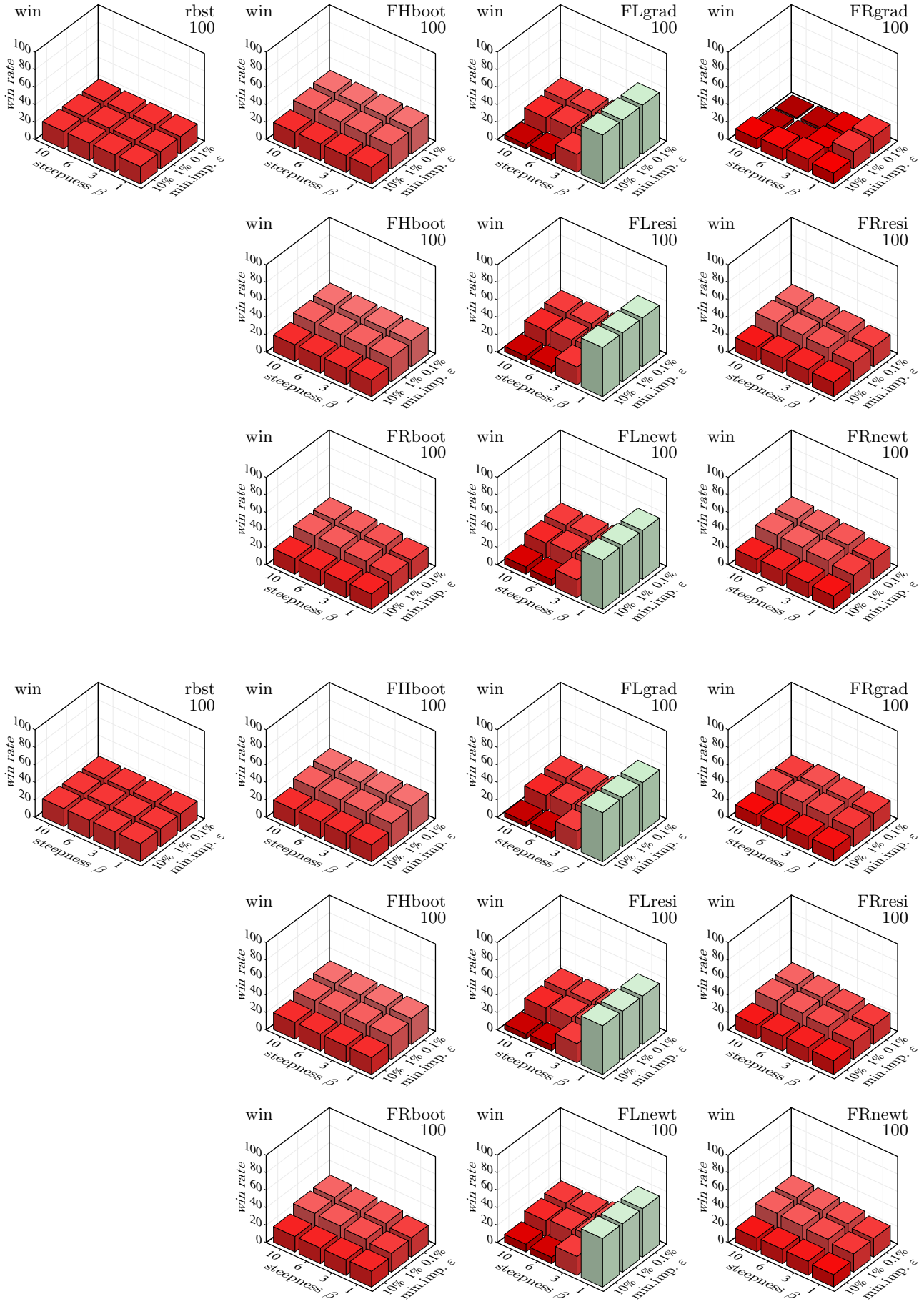

sse
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%

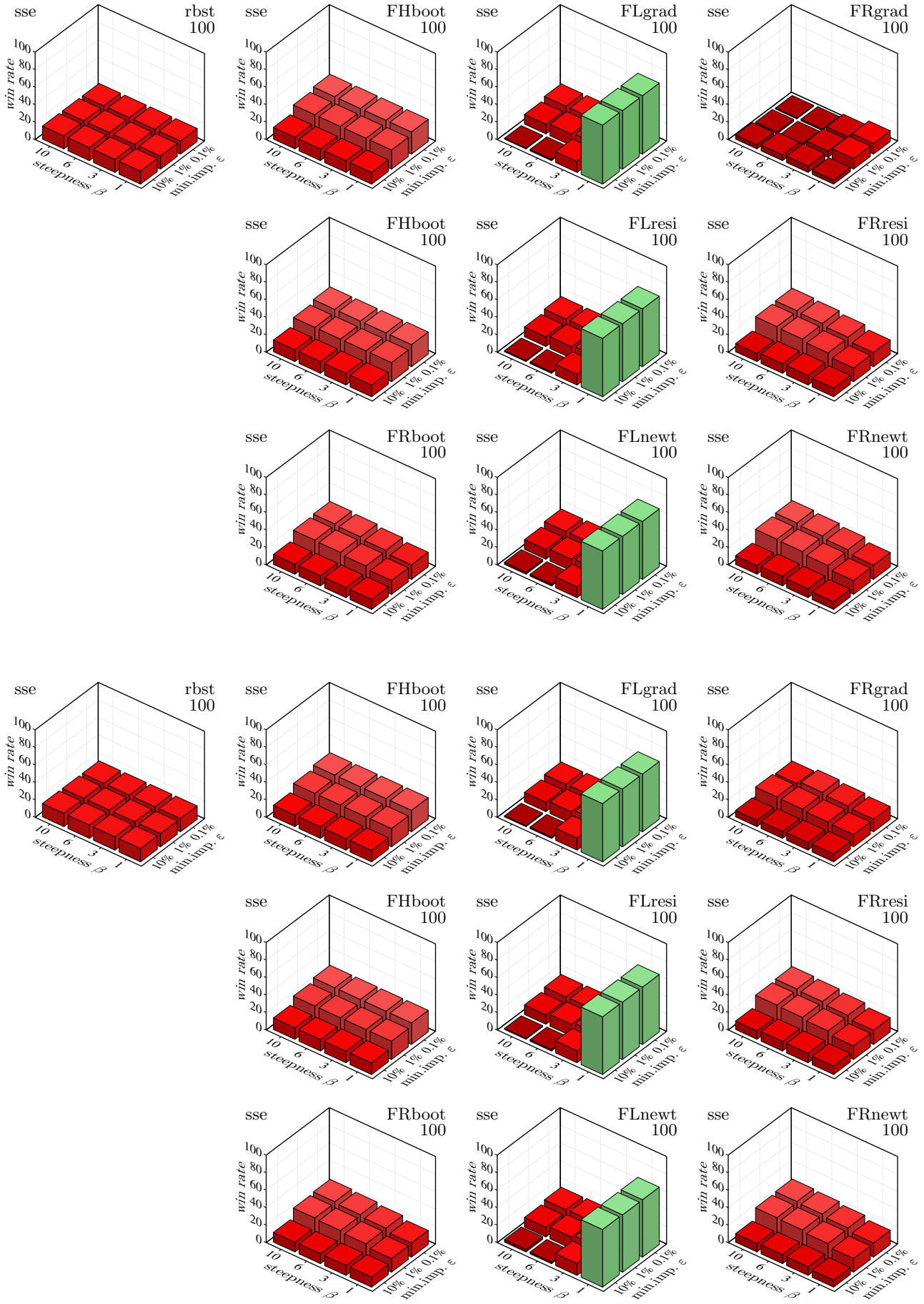

win
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
steepness β
min.imp. ε

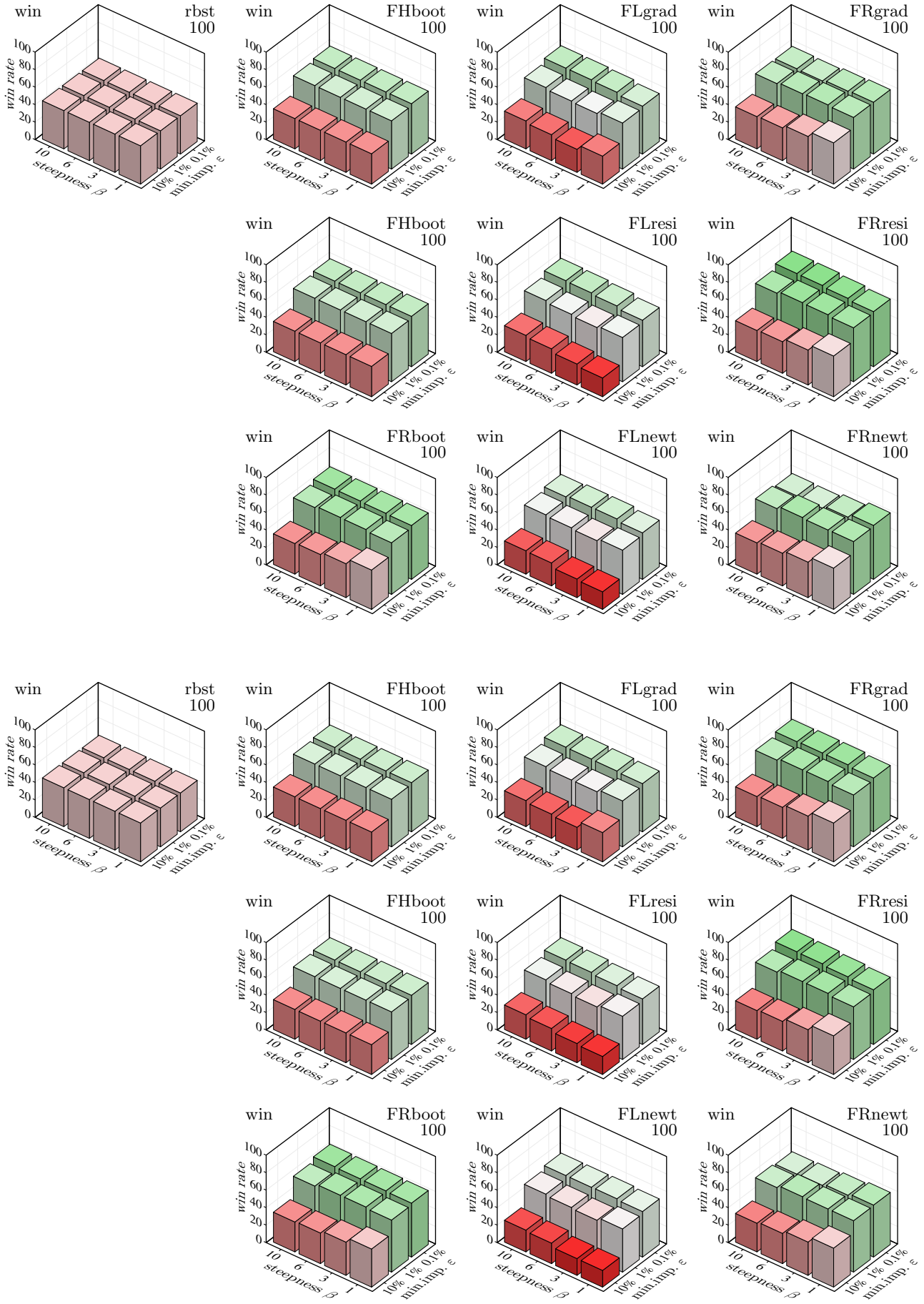

sse
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%

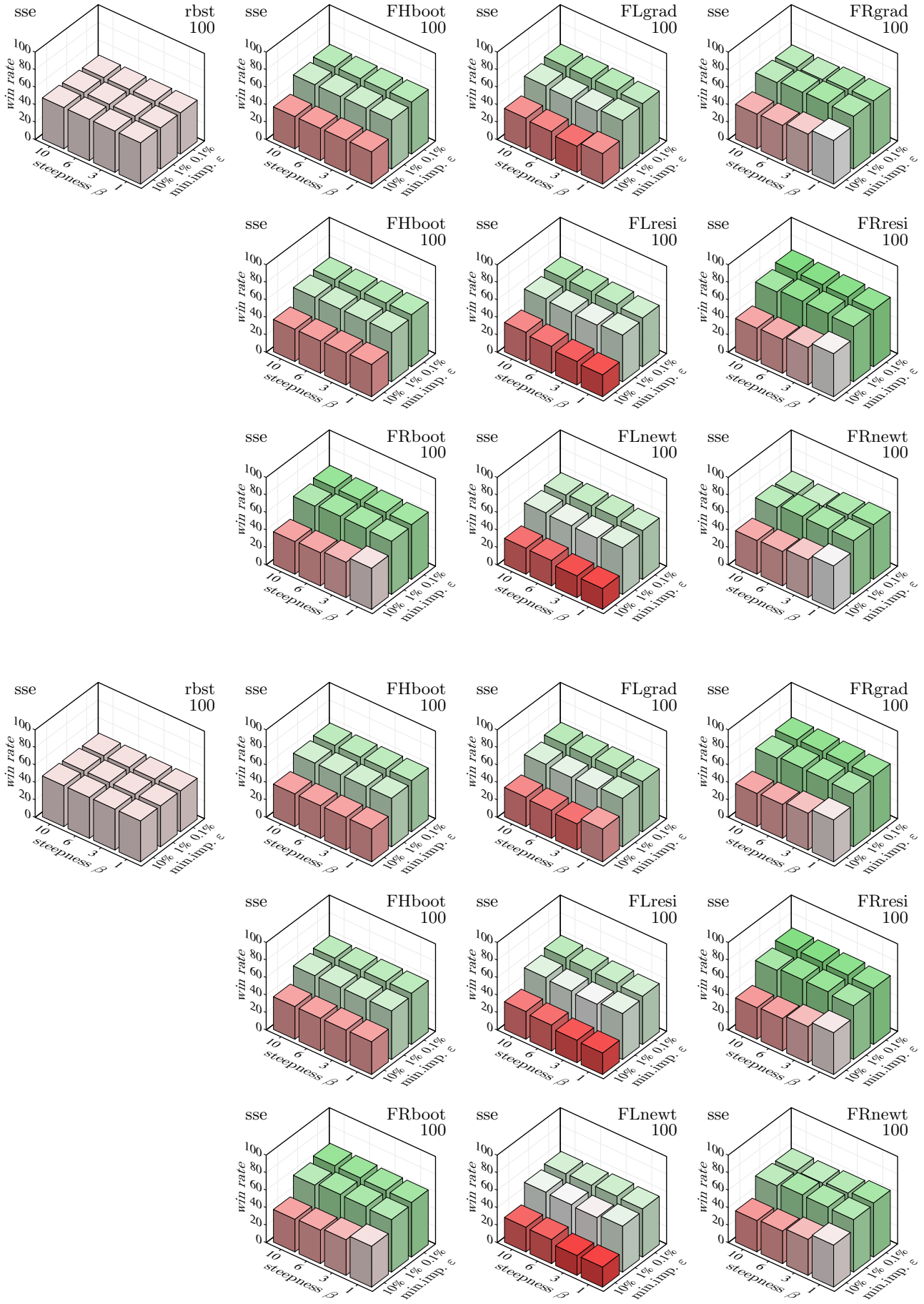

win
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
steepness β
min.imp. ε

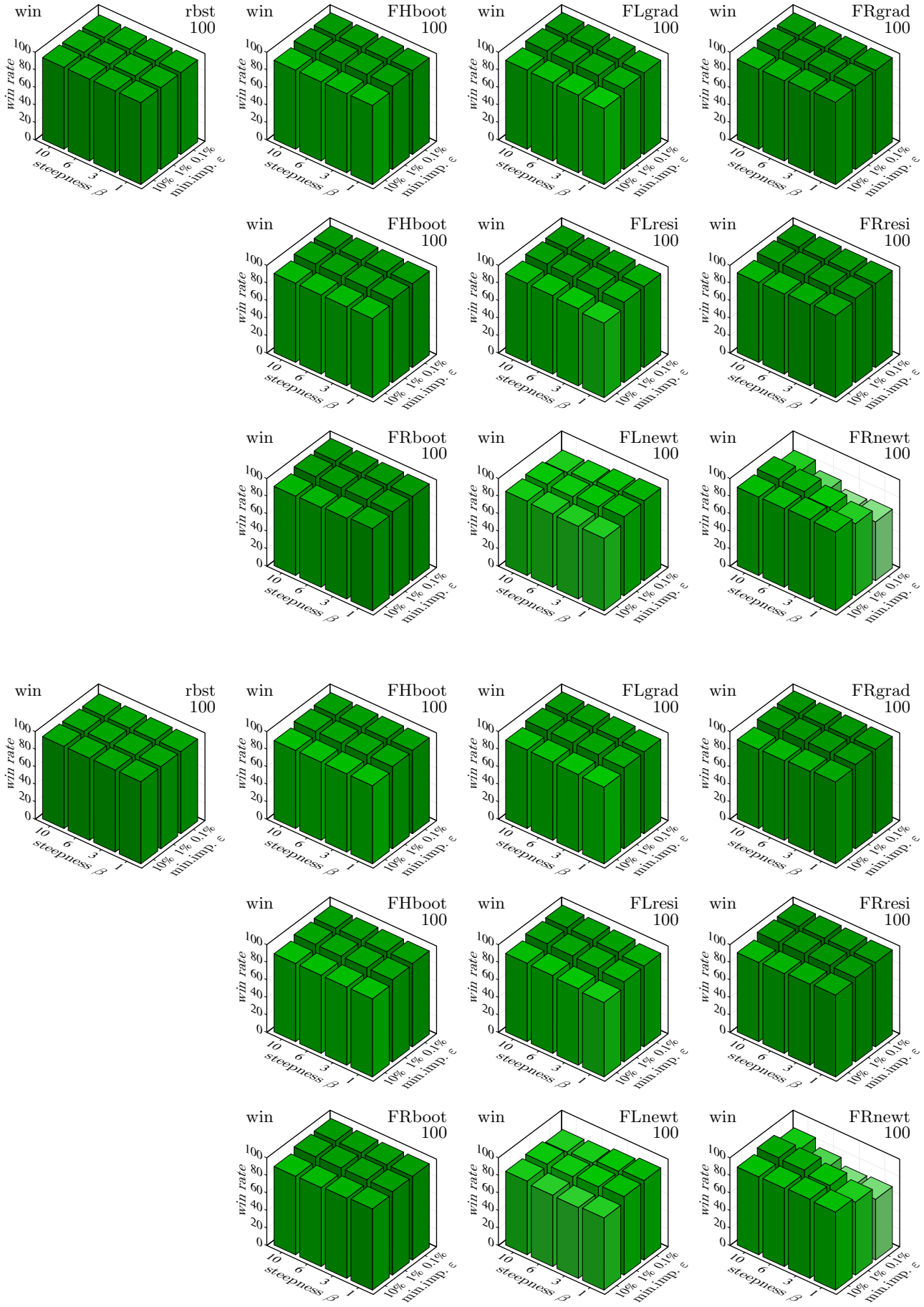

sse
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%

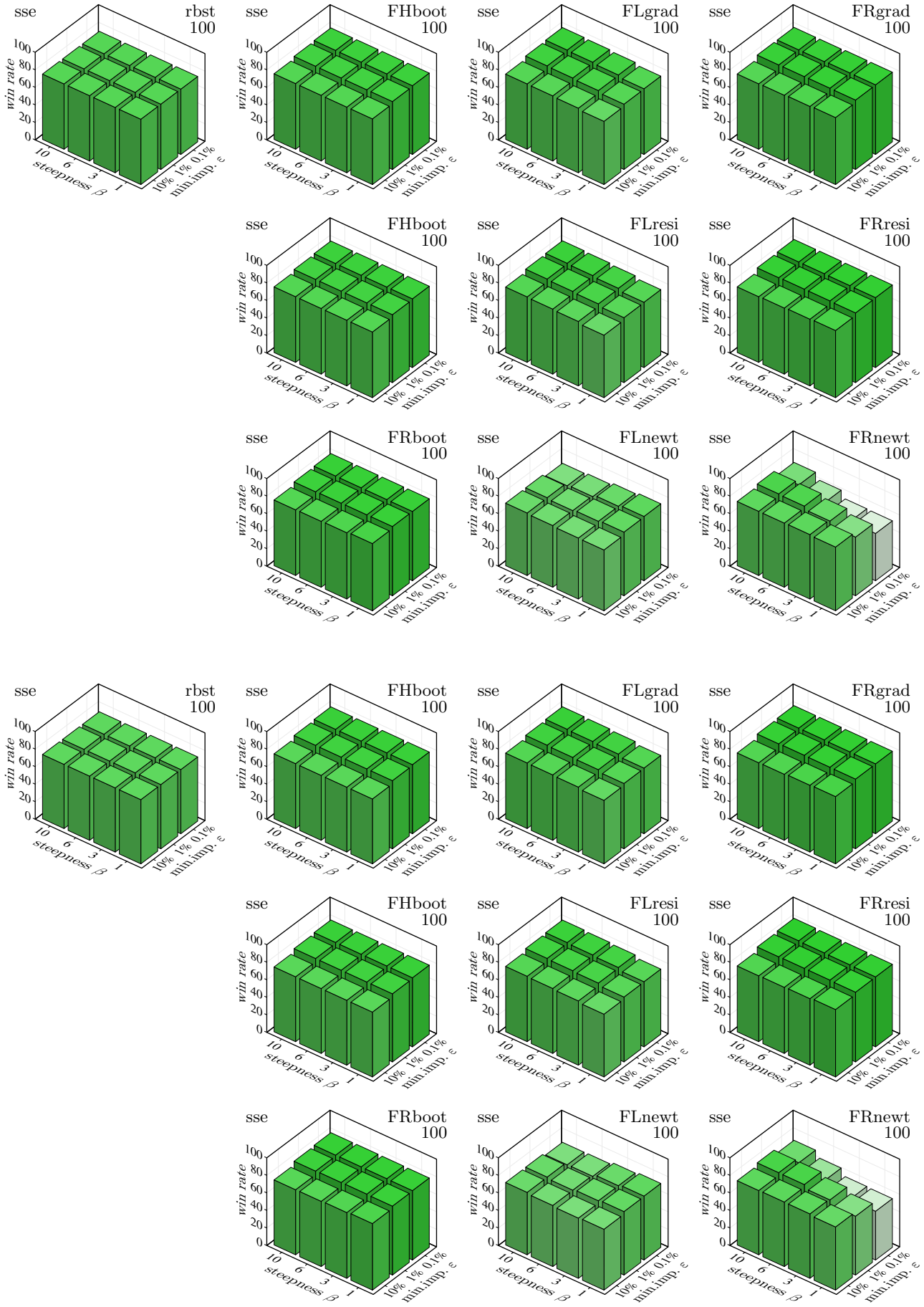

win
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%


sse
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%


win
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%


sse
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%


win
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0.1%


sse
rbst
100
FHboot
FLgrad
FRgrad
FLresi
FRresi
FRboot
FLnewt
FRnewt
win rate
0
20
40
60
80
100
steepness β
10
6
3
1
min.imp. ε
10%
1%
0,1%