random\_X\_and\_structured\_Beta 1.0 -1.0 -0.95 0.9 0.90 0.8 0.8 opserved 0.7 0.85 0.6 0.6 0.80 -0.6 0.4 0.025 1200 0.05 0.1 0.2 0.4 2400 4800 9600 19200 250 500 1000 2000 1.0 0.9 0.95 -0.9 -0.9 ORC\_fine 0.8 -0.94 0.8 0.7 0.7 0.93 -

0.7

1200

2400

4800

Ν

9600

0.4

Beta\_FPR

0.6

0.025

0.05

0.1

batch\_effect

0.2

method → IBMR\_int -△· IBMR\_no\_Gamma +· relabel -× subset

0.6

250

500

р

1000

2000

20

60

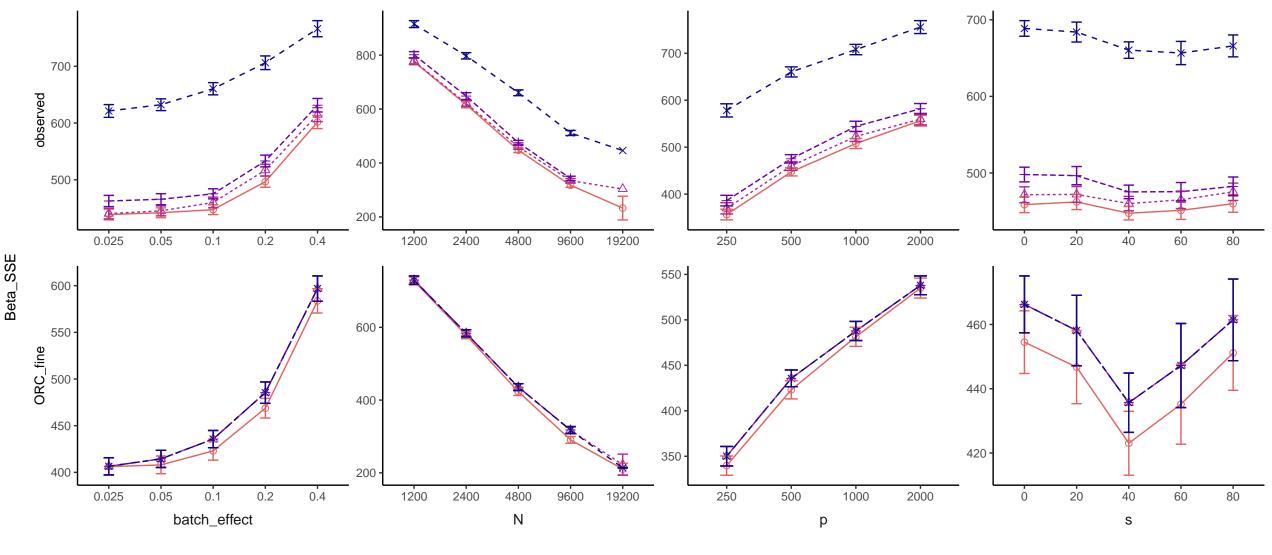
40

S

80

19200

random\_X\_and\_structured\_Beta



method  $\rightarrow$  IBMR\_int - $\triangle$  · IBMR\_no\_Gamma + · relabel - $\times$  subset

random\_X\_and\_structured\_Beta 1.00 -1.000 0.999 1.0000 0.999 0.98 observed 0.998 0.997 0.9995 0.96 0.997 0.9990 0.995 0.94 0.996 0.9985 0.995 0.92 0.993 -0.025 0.05 0.1 0.2 1200 2400 4800 9600 19200 250 500 1000 2000 20 40 60 1.050 1.050 1.0002 -1.000 0.999 1.025 -1.025 1.0000 ORC\_fine 0.998 1.000 1.000 0.997 0.9996 0.996 0.975 -0.975

0.995

1200

2400

4800

Ν

9600

19200

Beta\_TPR

0.9994

0.025

0.05

0.1

batch\_effect

0.2

0.4

method → IBMR\_int -△ IBMR\_no\_Gamma → relabel -× subset

0.950

250

500

1000

р

0.950

20

0

40

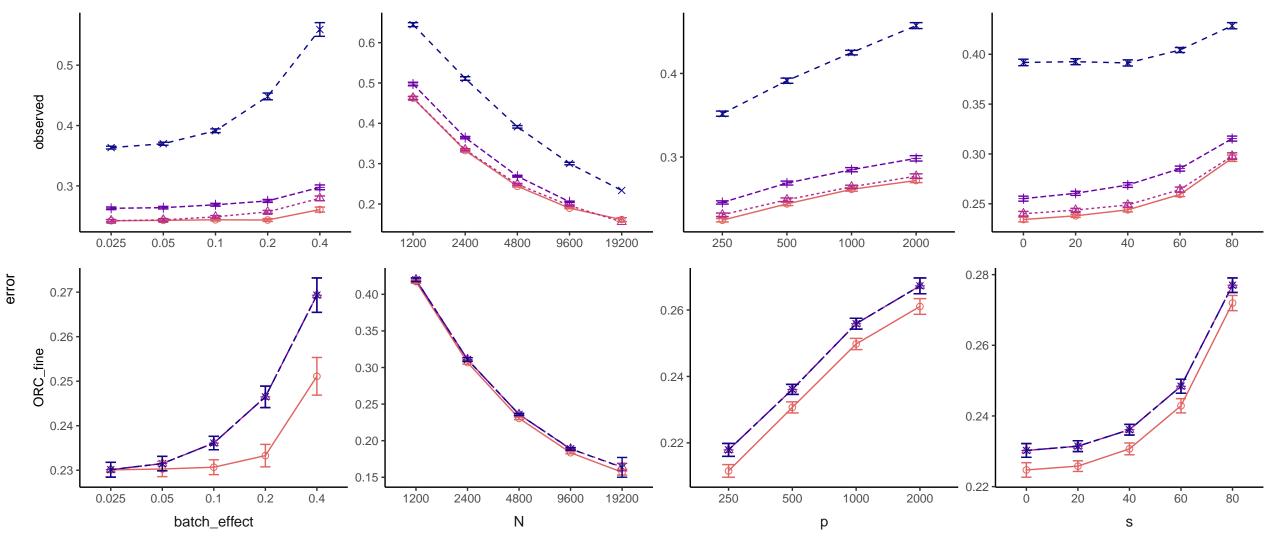
S

60

80

2000

random\_X\_and\_structured\_Beta



method → IBMR\_int -△· IBMR\_no\_Gamma →· relabel -× subset

method → IBMR\_int -△· IBMR\_no\_Gamma → relabel -× subset

250

500

р

1000

2000

20

40

S

60

80

1200

0.025

0.05

0.1

batch\_effect

0.2

0.4

2400

4800

Ν

9600

19200