random_X_and_structured_Beta 1.0 -1.0 -0.95 0.9 0.8 0.90 0.8 opserved 0.7 0.85 0.6 0.6 0.80 -0.6 0.4 -1200 4800 1000 0.025 0.05 0.1 0.2 0.4 2400 9600 250 500 2000 1.0 -1.0 0.970 0.9 0.9 0.965 0.9 ORC_fine 0.8 0.960 0.8 0.7 0.955 0.7

Beta_FPR

0.6

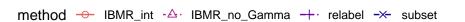
0.025

0.05

0.1

batch_effect

0.2



250

500

р

1000

2000

9600

0.950

20

0

40

S

60

80

0.7

1200

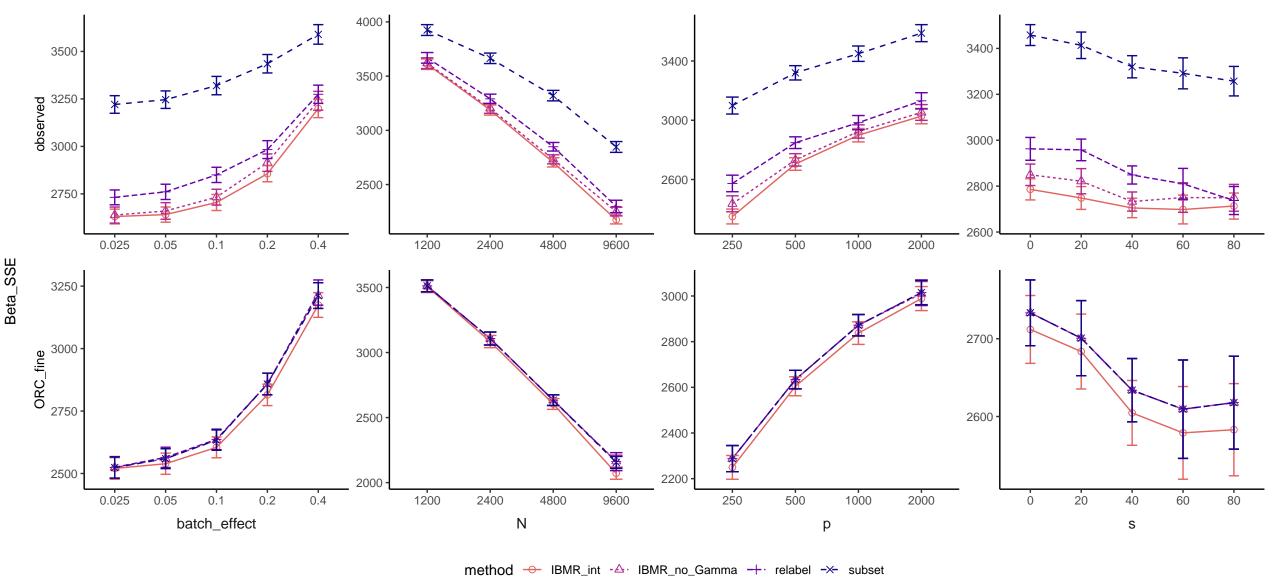
2400

Ν

4800

0.4

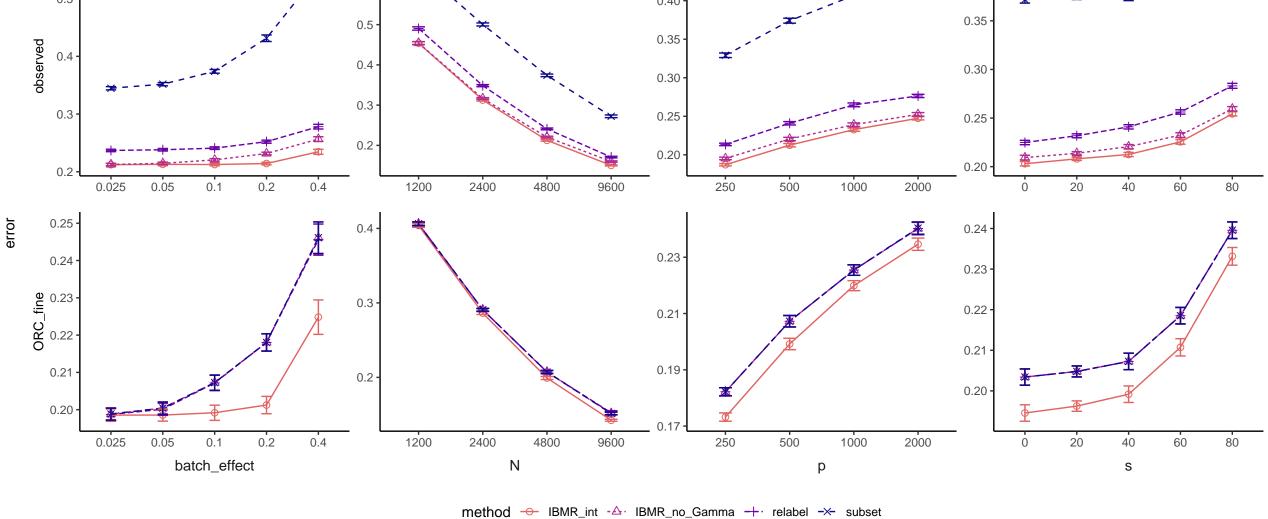
random_X_and_structured_Beta

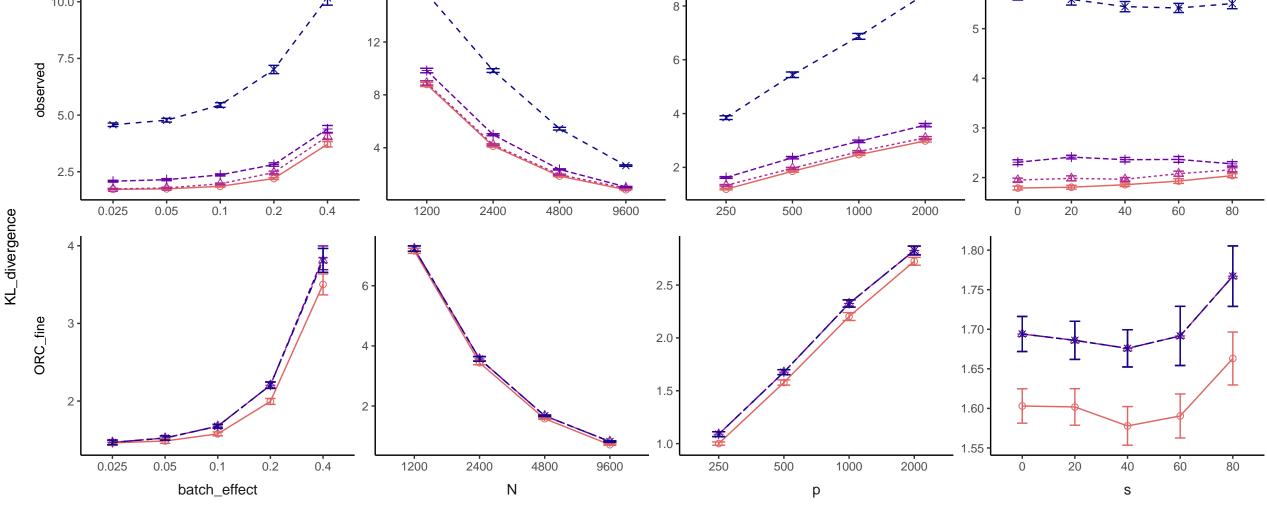


random_X_and_structured_Beta 1.00 -1.000 1.000 · 1.0000 0.999 0.98 0.9995 opserved 0.999 0.998 0.96 0.9990 0.998 0.9985 0.997 0.94 0.9980 0.997 -4800 250 500 0.025 0.05 0.1 0.2 0.4 1200 2400 9600 1000 2000 20 40 60 80 Beta_TPR 1.050 1.050 1.050 1.0000 1.025 1.025 -1.025 0.9995 ORC fine 0.9990 1.000 1.000 0.9985 0.975 -0.975 -0.975 0.9980 0.9975 0.950 0.950 0.950 1200 0.025 0.05 0.1 0.2 0.4 2400 4800 9600 250 500 1000 2000 20 40 60 80 0 batch_effect Ν р S

method → IBMR_int -△ · IBMR_no_Gamma + · relabel -× subset

random_X_and_structured_Beta 0.45 -0.40 0.6 0.5 0.40 0.35 0.5 0.35 observed 0.4 -0.4 0.30 0.30 0.3 0.3 -0.25 0.25 0.2 0.20 0.20 0.2 1200 2400 4800 500 1000 0.025 0.05 0.2 9600 250 2000 0.1 0.4 0.25 -0.4 0.24 0.23 0.24 0.23 0.23 -O 0.22 -0.3 0.22 0.21 0.21





method → IBMR_int -△· IBMR_no_Gamma →· relabel -× subset