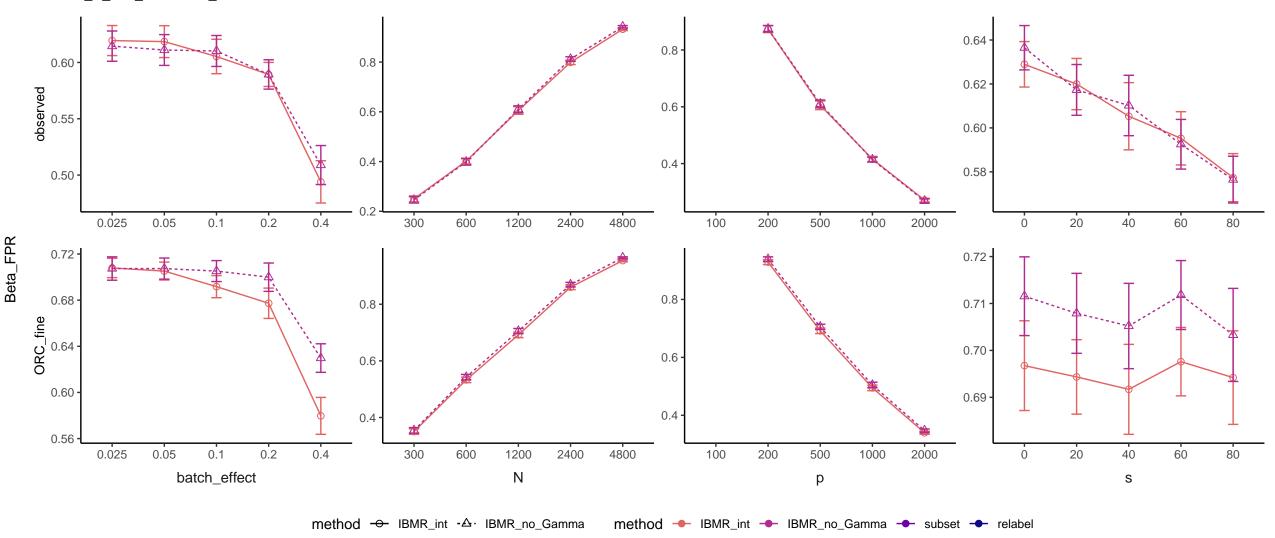
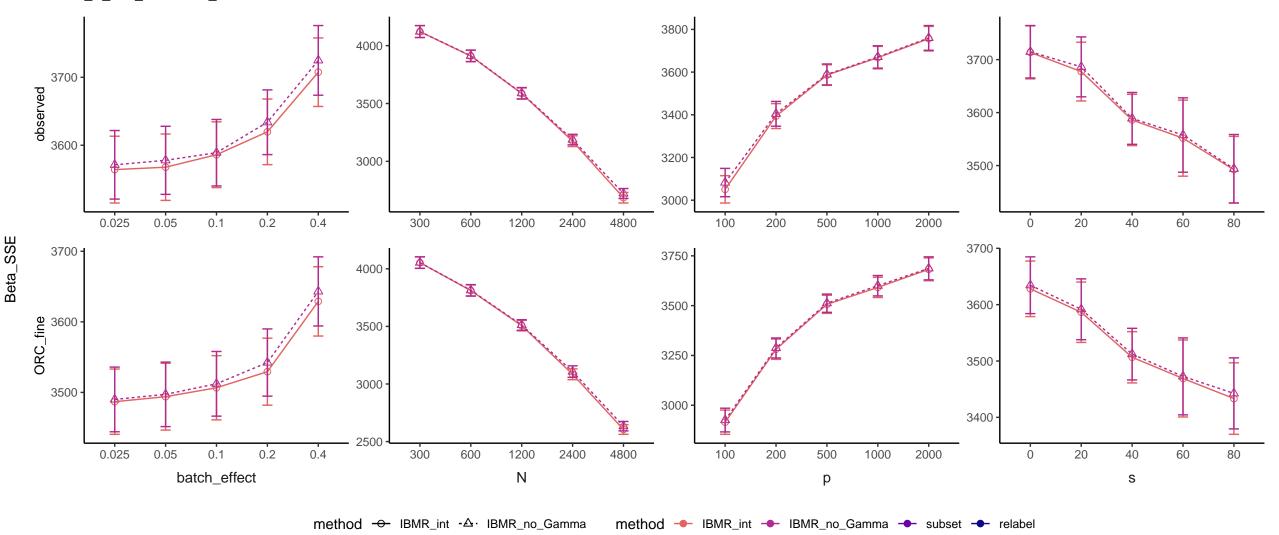
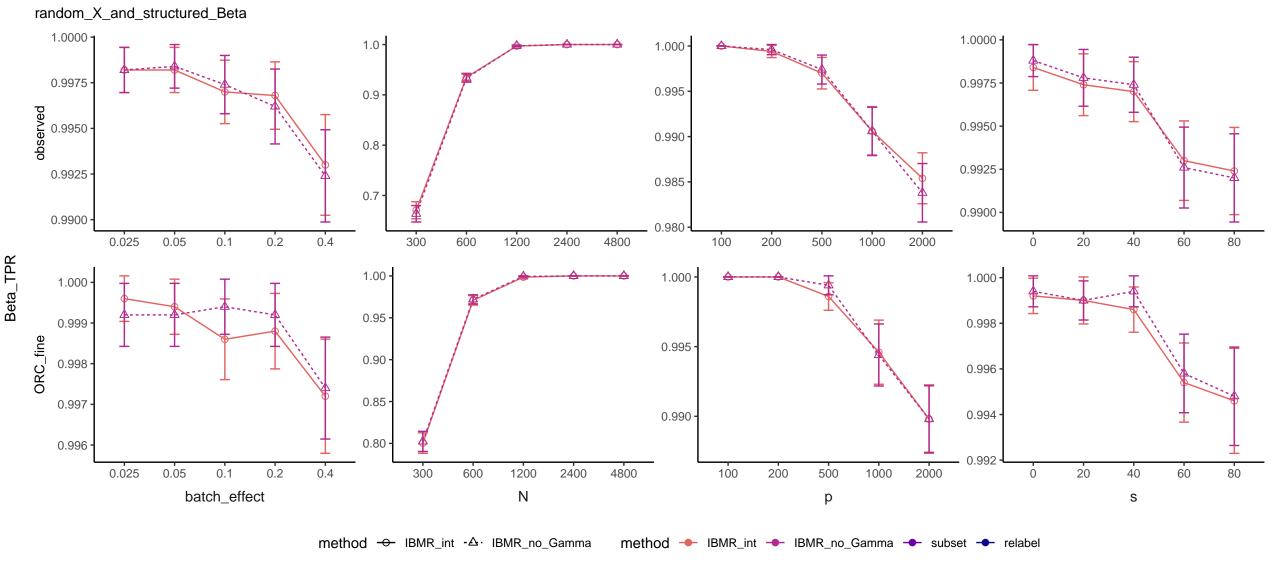
random\_X\_and\_structured\_Beta



random\_X\_and\_structured\_Beta



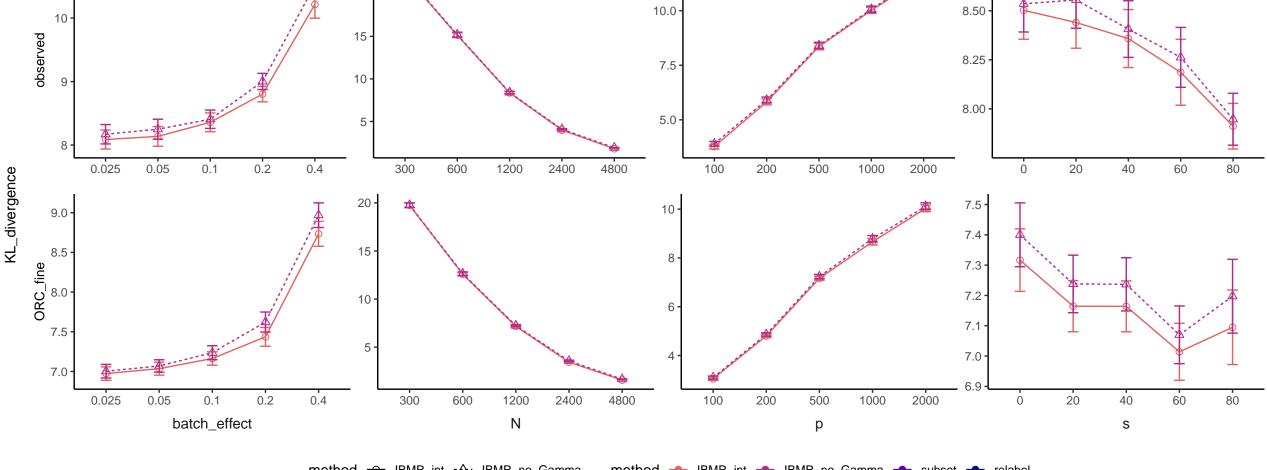


random\_X\_and\_structured\_Beta 0.47 -0.47 0.50 0.46 0.46 0.6 0.45 opserved 0.45 0.45 0.40 0.4 0.44 0.44 -0.35 -0.43 0.43 0.025 1200 100 500 0.05 0.1 0.2 300 600 2400 4800 200 1000 2000 0.4 20 0.7 error 0.43 -0.45 0.43 0.6 0.42 -0.41 -0.41 0.5 0.40 0.42 0.4 0.41 0.35 -0.3 0.40 0.40 -0.2 0.30 0.025 100 0.4 1200 500 2000 0.05 0.2 300 600 2400 4800 200 1000 0.1 20 40 60 80 batch\_effect Ν

method  $\rightarrow$  IBMR\_int  $-\triangle \cdot$  IBMR\_no\_Gamma method → IBMR\_int → IBMR\_no\_Gamma → subset → relabel

S

random\_X\_and\_structured\_Beta 20 10.0 8.50 10 15 observed 8.25 7.5 10 8.00 5.0 -0.025 300 2400 100 0.05 0.2 0.4 600 1200 4800 200 500 1000 2000 0.1 20 7.5 10 -9.0 7.4



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