n=50, p=1000, s=5 Correlation 0 Correlation 0.35 Correlation 0.7 0.8 0.6 Beta-type 1 0.4 0.2 0.0 0.8 -0.6 -Beta-type 2 0.4 0.2 0.0 8.0 0.6 -Beta-type 3 0.4 0.2 -0.0 8.0 0.6 Beta-type 5 0.4 0.2 -0.0

Proportion of variance explained

0.05

0.25

1.22

Method → Best subset → Forward stepwise → Lasso → Relaxed lasso

Signal-to-noise ratio

1.22

6.00 0.05

0.25

1.22

6.00

0.25

6.00 0.05