n=50, p=1000, s=5 Correlation 0 Correlation 0.35 Correlation 0.7 6 Beta-type 1 4 · 2 6 Beta-type 2 Relative test error (to Bayes) Beta-type 3 2 6 Beta-type 5 4 2 6.00 0.05 1.22 1.22 6.00 0.05 1.22 0.05 0.25 0.25 0.25 6.00 Signal-to-noise ratio

Method → Best Subset → BOSO – eBIC → Forward stepwise → Lasso → Relaxed lasso