

# PhiMr Filter Effect on Signal Density

Simulated SNP set ( $p = 567$ ) with weakly-correlated signal variables

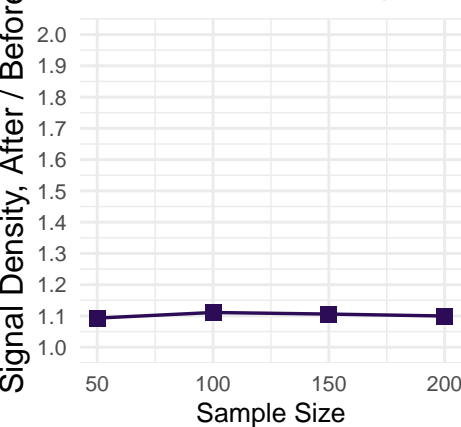
Multivariate normal errors

Mean value, across 1000 simulated data replicates, of signal density after PhiMr relative to before

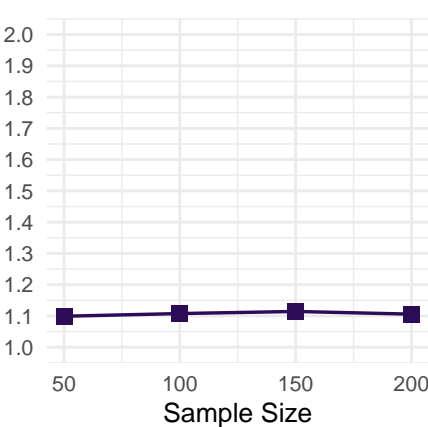
Signal density measured as number of signal variables relative to total number of features

## 28-variable signal set

Uncorrelated error components

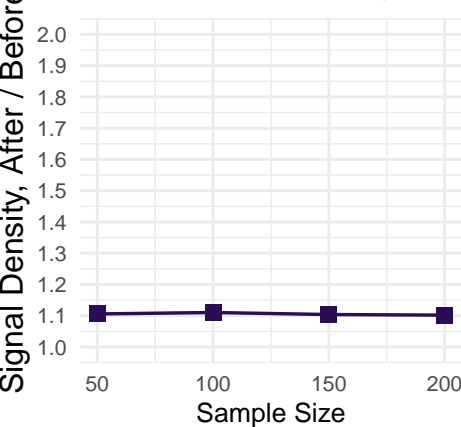


Correlated error components ( $\rho = 0.5$ )

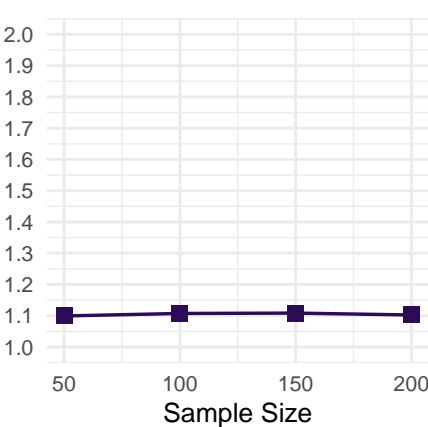


## 122-variable signal set

Uncorrelated error components



Correlated error components ( $\rho = 0.5$ )



feature dim.

■ 567