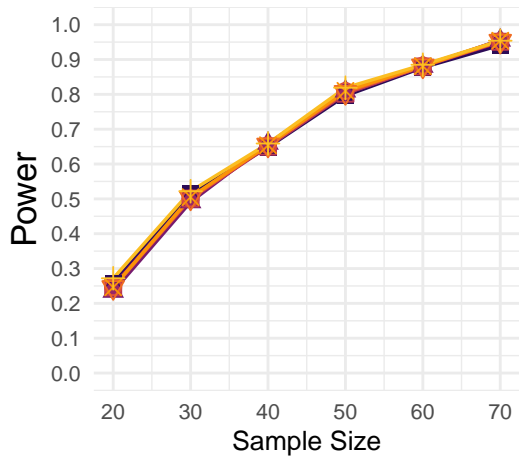


Simulated Power: Comparison of AMKAT Variations

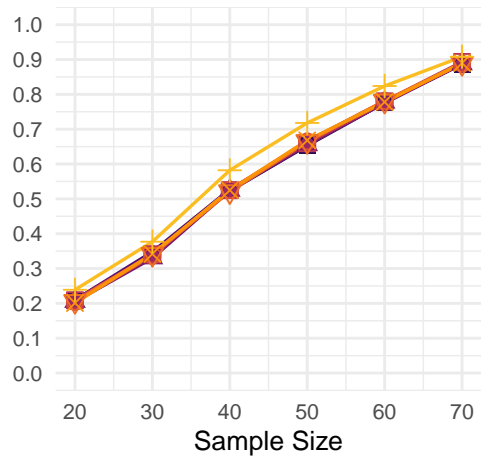
Discrete (SNP) features ($p = 567$), multivariate normal errors, 100% signal strength
Each value based on 1000 simulated data replicates; AMKAT P-values estimated using 1000 permutations

28-variable signal

Independent errors

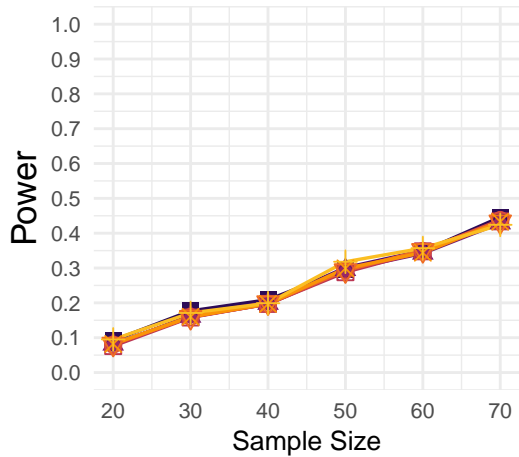


Correlated errors (± 0.5 pairwise)

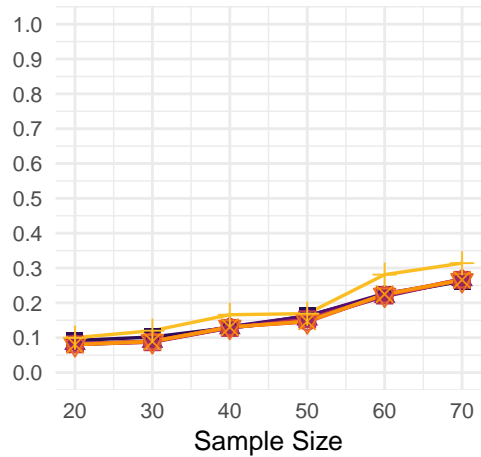


123-variable signal

Independent errors



Correlated errors (± 0.5 pairwise)



- Number of test stats used to estimate P-value with PhiMr
- 0 (no filter)
 - 1
 - 2
 - 4
 - 8
 - 16
 - 32
 - 64
 - 128