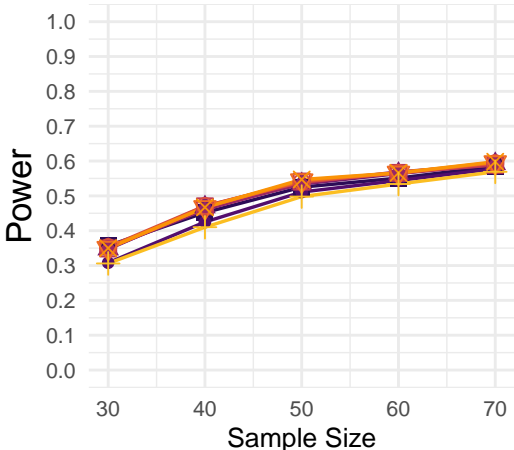


# Simulated Power: Comparison of AMKAT Variations

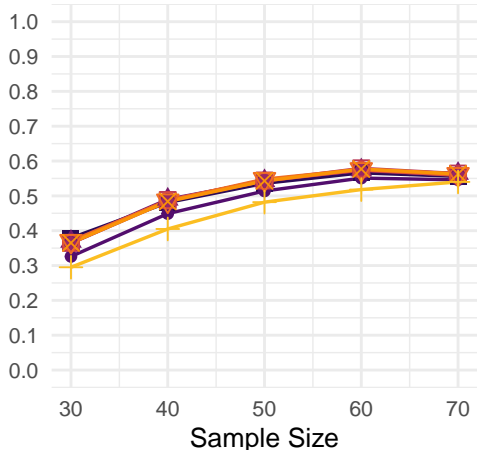
Discrete (SNP) features ( $p = 567$ ), multivariate Cauchy errors, 300% signal strength  
Each value based on 1000 simulated data replicates; AMKAT P-values estimated using 1000 permutations

## 28-variable signal

Independent errors

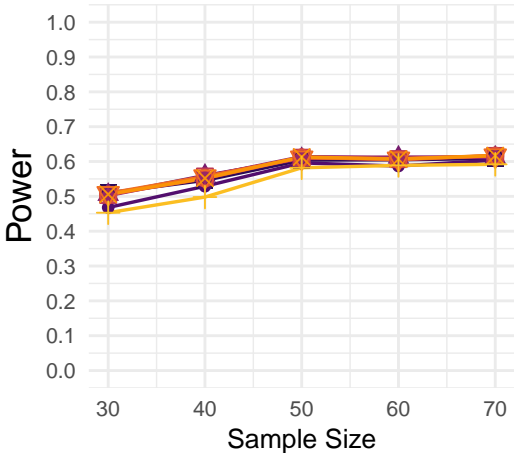


Correlated errors ( $\pm 0.5$  pairwise)

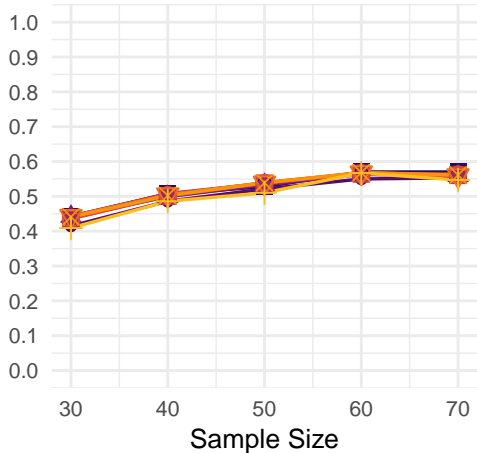


## 123-variable signal

Independent errors



Correlated errors ( $\pm 0.5$  pairwise)



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