

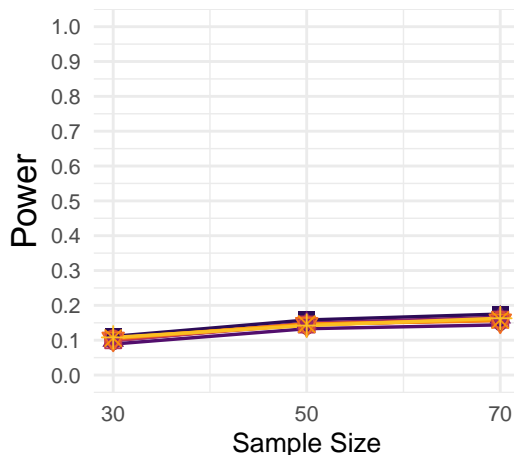
## Simulated Power: Comparison of AMKAT Variations

Discrete (SNP) features ( $p = 567$ ), multivariate Cauchy errors, 100% signal strength

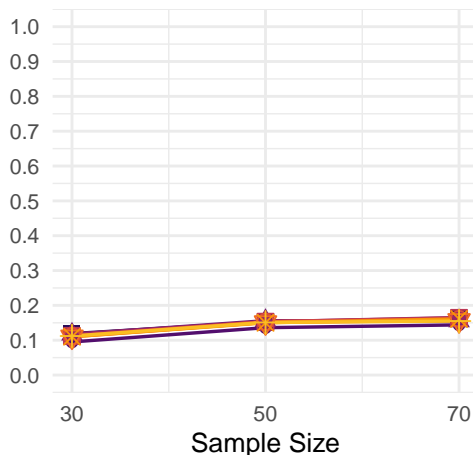
Each value based on 1000 simulated data replicates; AMKAT P-values estimated using 1000 permutations

## 28-variable signal

## Independent errors



Correlated errors ( $\pm 0.5$  pairwise)



Number of test stats  
used to estimate  
P-value with PhiMr

0 (no filter)

1

2

◆ 4

 8

10

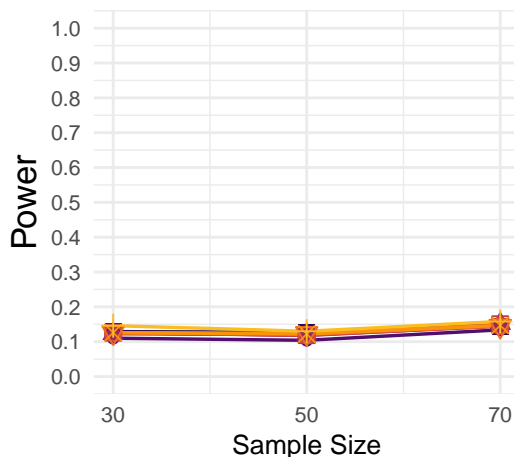
3

✖ 6.

+ 128

## 123-variable signal

## Independent errors



Correlated errors ( $\pm 0.5$  pairwise)

