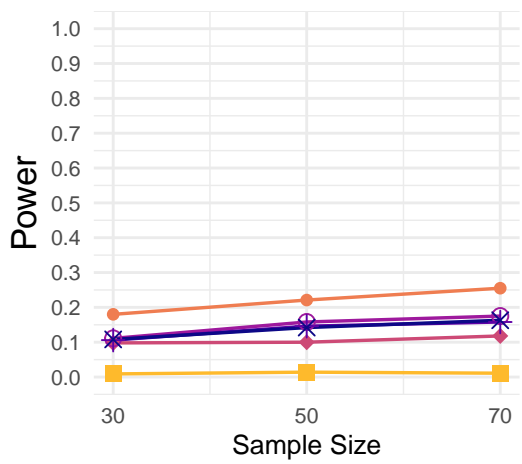


# Simulated Power: AMKAT vs. Comparison Methods

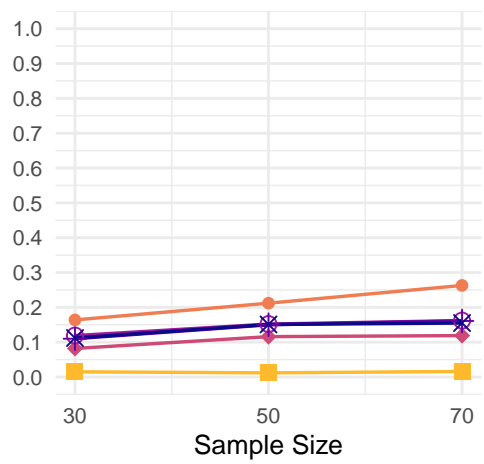
Discrete (SNP) features ( $p = 567$ ), multivariate Cauchy errors, 100% signal strength  
Each value based on 1000 simulated data replicates; AMKAT P-values estimated using 1000 permutations

## 28-variable signal

Independent errors

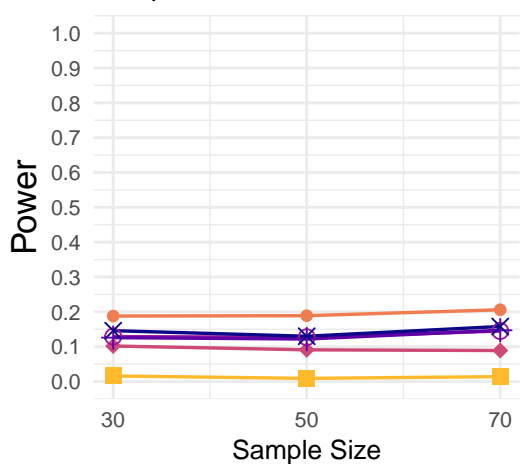


Correlated errors ( $\pm 0.5$  pairwise)

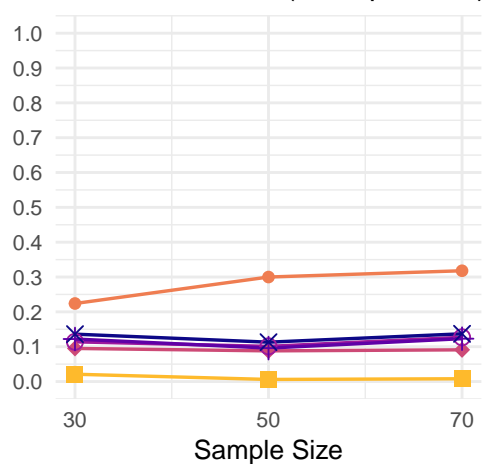


## 123-variable signal

Independent errors



Correlated errors ( $\pm 0.5$  pairwise)



- OMGA
- DKAT
- DKAT with Linear Phenotype Kernel
- AMKAT (no filter)
- AMKAT (PhiMr filter) with 64 test stats
- AMKAT (PhiMr filter) with 128 test stats