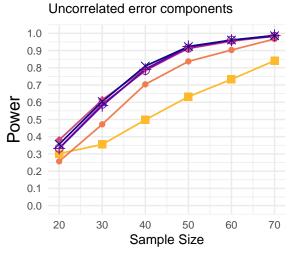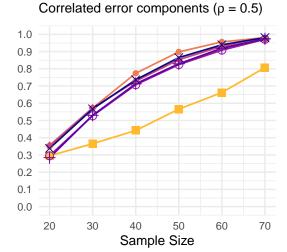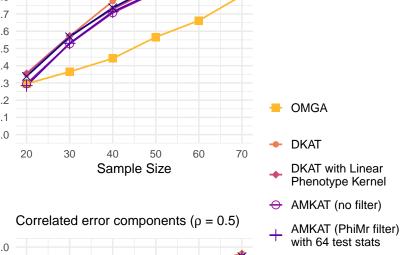# Simulated Power: AMKAT vs. Comparison Methods

Simulated SNP set (p = 567) with weakly−correlated signal variables
Each value based on 1000 simulated data replicates; AMKAT P−values estimated using 1000 permutations

28−variable signal set

Uncorrelated error components

Correlated error components (ρ = 0.5)

122−variable signal set

Uncorrelated error components

Correlated error components (ρ = 0.5)

Legend:
- ■ OMGA
- ● DKAT
- ◆ DKAT with Linear Phenotype Kernel
- ⬡ AMKAT (no filter)
- ✚ AMKAT (PhiMr filter) with 64 test stats
- ✖ AMKAT (PhiMr filter) with 128 test stats