Standard Deviation of AMKAT P−value on a Fixed Data Set
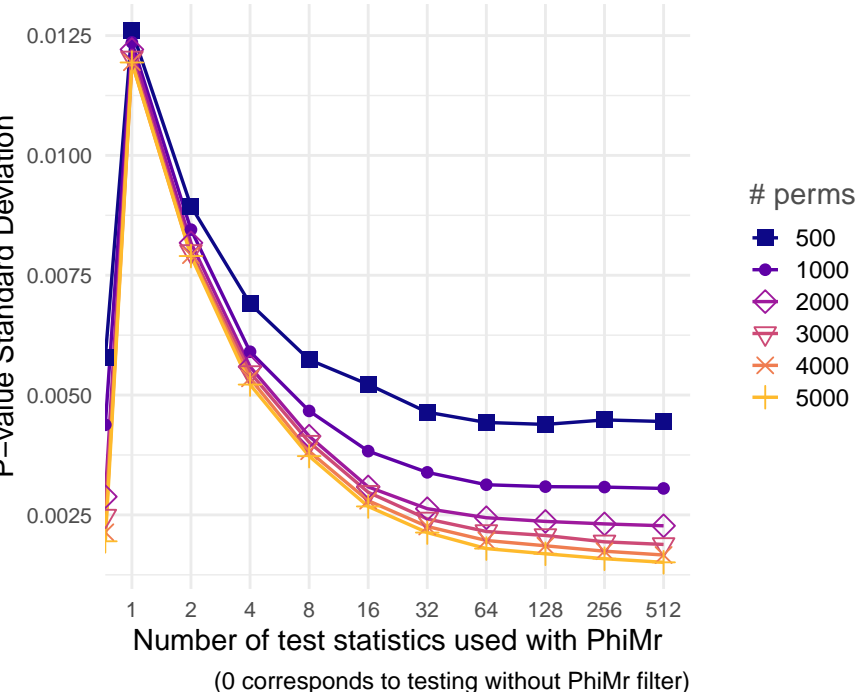
Simulated SNP set, 28−variable signal set with strongly−correlated components, p = 567, n = 45
Multivariate normal errors with correlated components (±0.5 pairwise)

As a function of the # of test statistics

Each point represents a sample of 500 P−values

P−value Standard Deviation

 # perms
- 500
- 1000
- 2000
- 3000
- 4000
- 5000

Number of test statistics used with PhiMr

(0 corresponds to testing without PhiMr filter)

As a function of the # of permutation statistics

Each point represents a sample of 500 P−values

P−value Standard Deviation

 # test stats
- 0 (no filter)
- 1
- 2
- 4
- 8
- 16
- 32
- 64
- 128
- 256
- 512

Number of permutations