

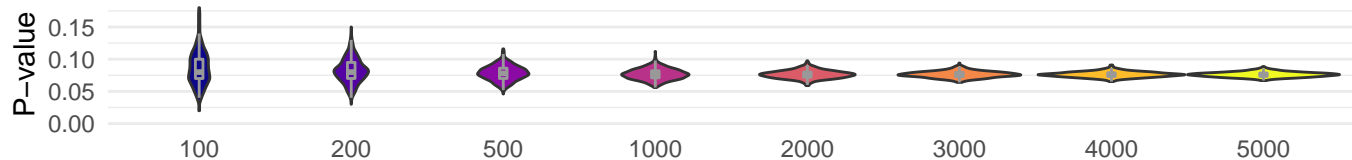
Distribution of AMKAT P-value on a Fixed Data Set

Discrete (SNP) features, 28-variable signal at 100% strength, $p = 567$, $n = 50$

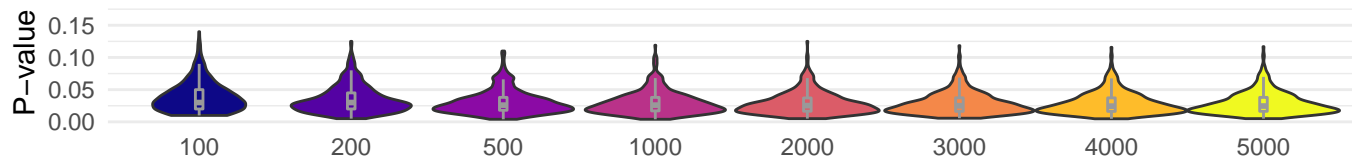
Multivariate normal correlated errors (± 0.5 pairwise)

Each sample contains 500 P-values

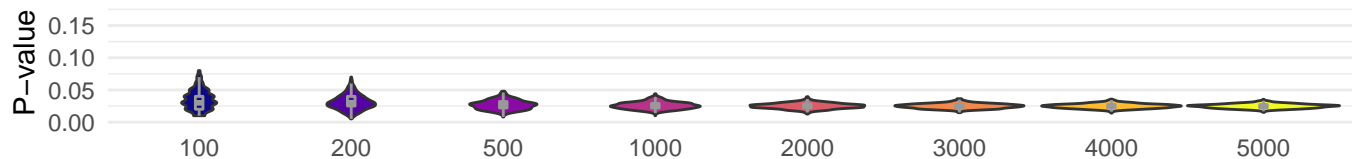
No filter



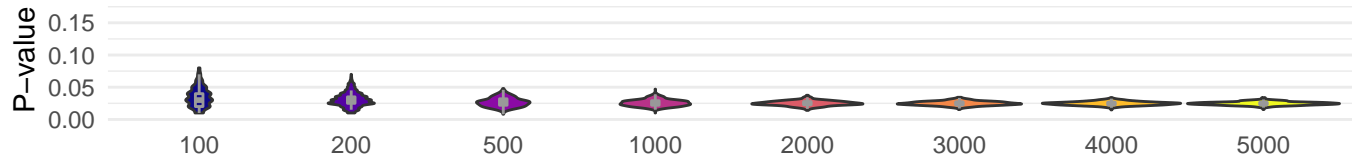
PhiMr filter with 1 test statistic per P-value



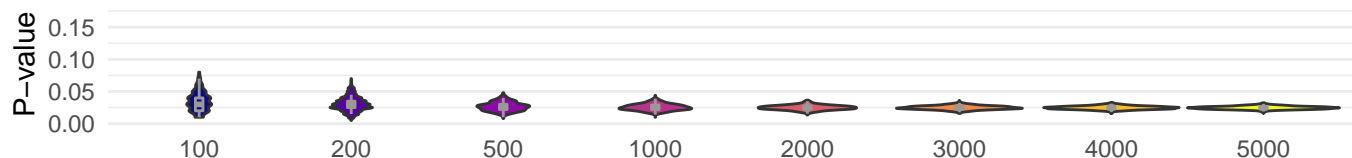
PhiMr filter with 32 test statistics per P-value



PhiMr filter with 128 test statistics per P-value



PhiMr filter with 512 test statistics per P-value



Permutation statistics per P-value