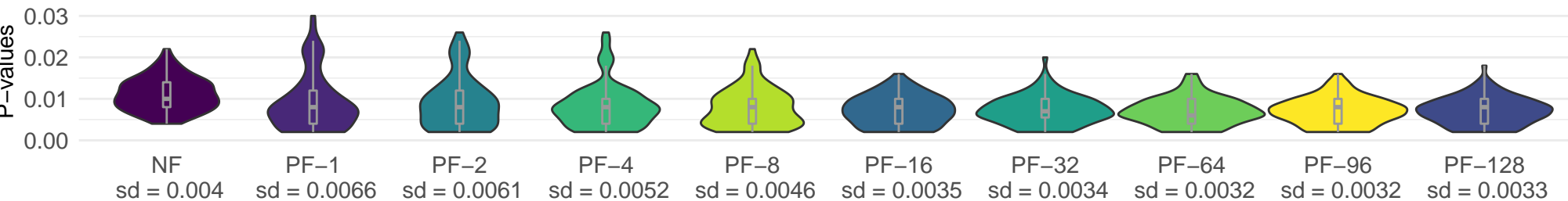


# Distribution of AMKAT P-value on a Fixed Data Set

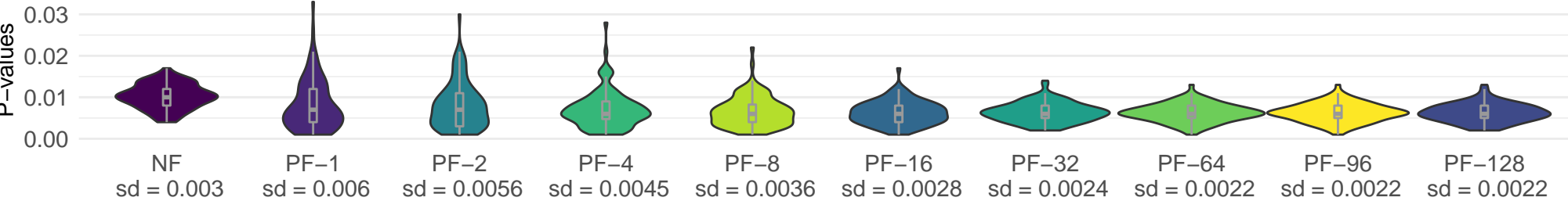
Discrete (SNP) features, 28-variable signal at 100% strength,  $p = 567$ ,  $n = 50$ , multivariate normal correlated errors ( $\pm 0.5$  pairwise)  
Each sample contains 100 P-values

NF = No Filter      PF-Q = PhiMr Filter with Q Test Statistics

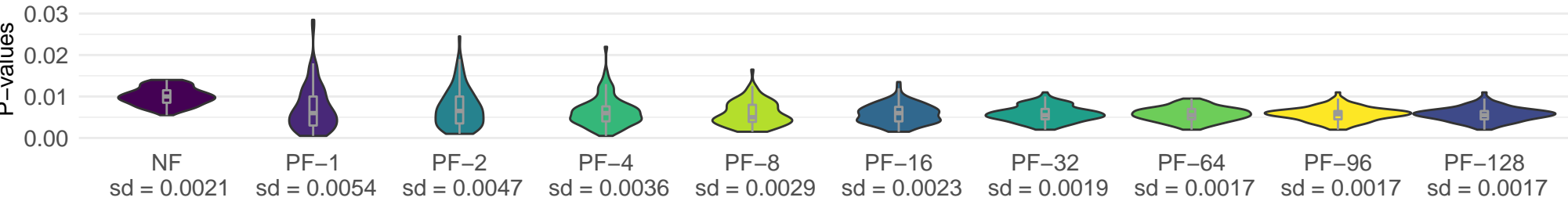
## A 500 permutation statistics per P-value



## B 1000 permutation statistics per P-value



## C 2000 permutation statistics per P-value



## D 5000 permutation statistics per P-value

