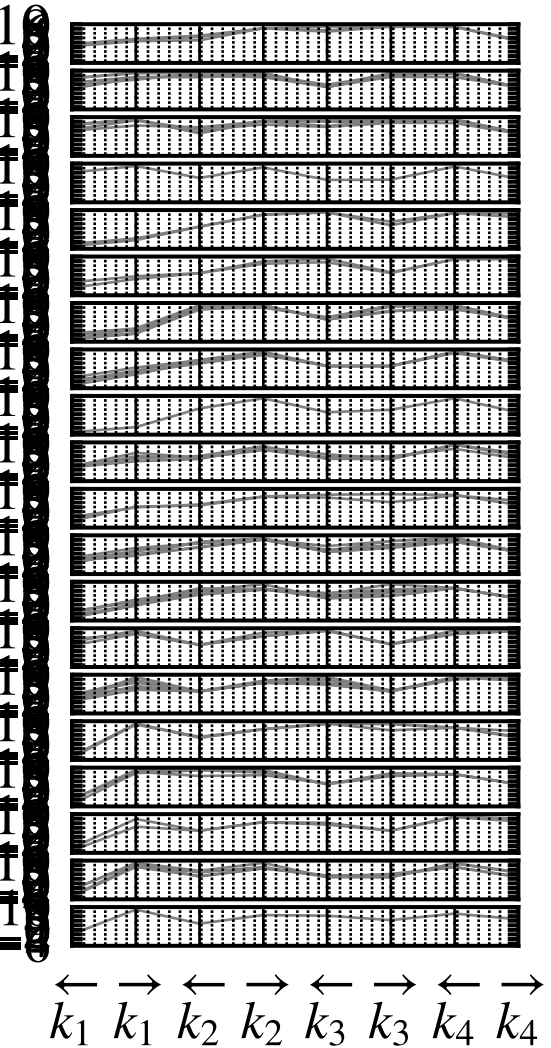
k_1 k_1 k_2 k_2 k_3 k_3 k_4 k_4