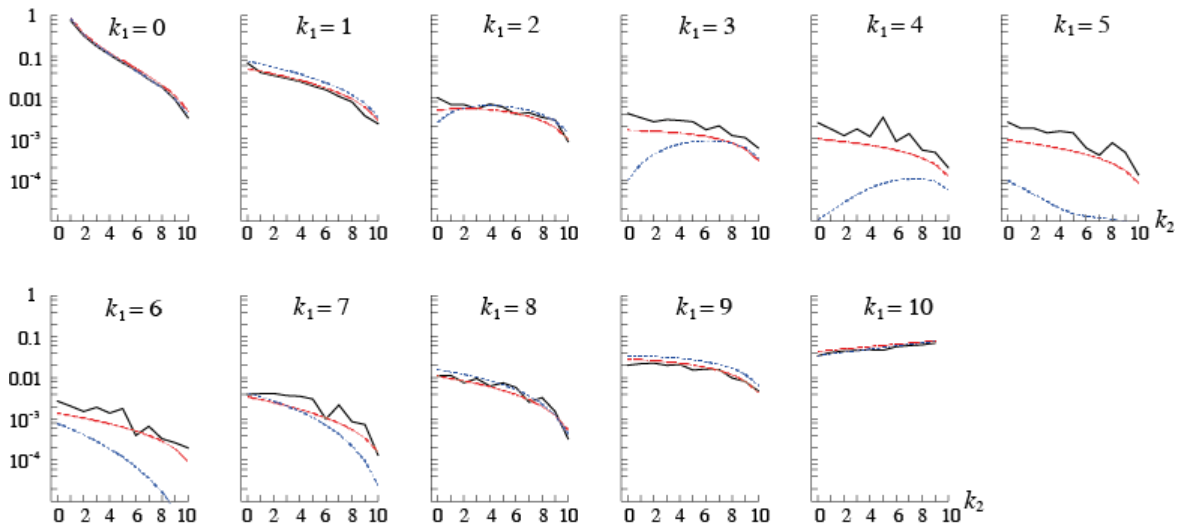
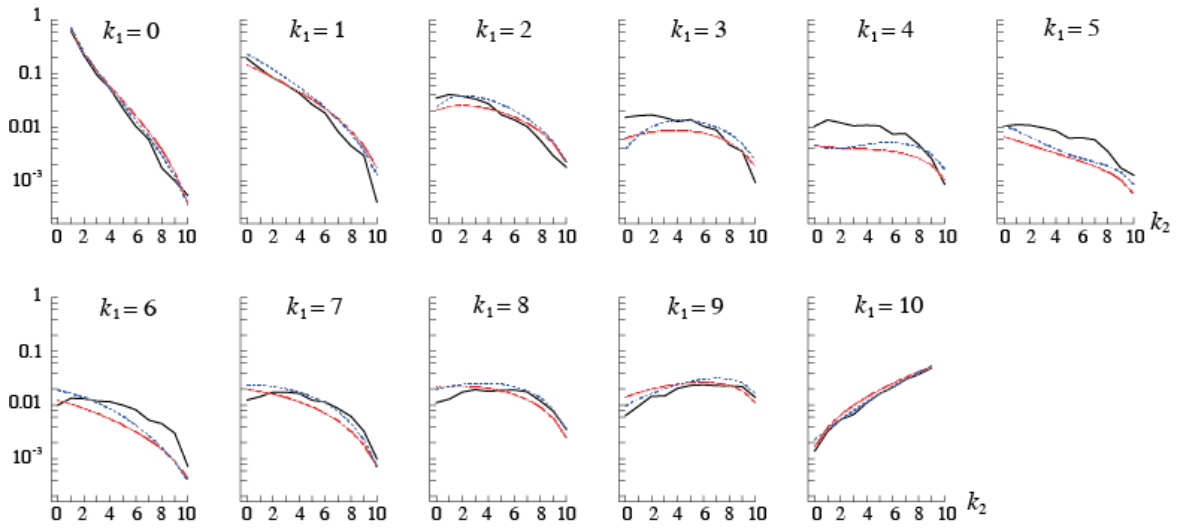


**Figure S1**

A.  $r/s = 0.01$



B.  $r/s = 0.04$



**Figure S1 legend:** Joint sampling probability under incomplete selective sweep for  $n_1 = n_2 = 10$  and  $r/s = 0.01$  or  $0.04$ .  $\phi_{S1}$  (blue) and  $\phi_{S2}$  (red) are compared against simulation result (black).