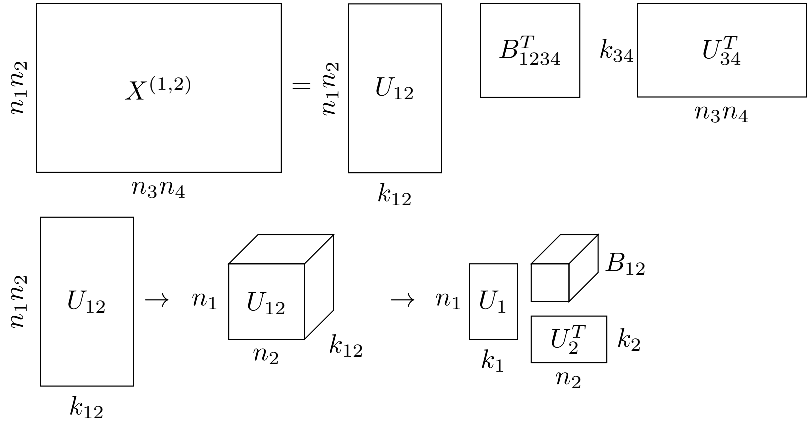

$X^{(1,2)}$
$n_1 n_2$
$n_3 n_4$
$=$
U_{12}
$n_1 n_2$
k_{12}
B_{1234}^T
k_{34}
U_{34}^T
$n_3 n_4$
U_{12}
$n_1 n_2$
k_{12}
$\rightarrow$
n_1
U_{12}
n_2
k_{12}
$\rightarrow$
n_1
U_1
k_1
B_{12}
U_2^T
k_2
n_2