

$\mathbb{1}$

$d_U \otimes d_{V^*}$

$U^* \otimes U \otimes V \otimes V^*$

$\text{id}_{U^*} \otimes c_{U,V} \otimes \text{id}_{V^*}$

$U^* \otimes V \otimes U \otimes V^*$

$\text{id}_{U^*} \otimes c_{V,U} \otimes \text{id}_{V^*}$

$U^* \otimes U \otimes V \otimes V^*$

$b_{U^*} \otimes b_V$

 $\mathbb{1}$ 