Lemma. Let $\langle \mathbf{C}, \otimes, \mathbf{1}_{\mathbf{C}}, \text{br}, \text{Tr} \rangle$ be a traced monoidal category. Then a more general version of the superposing law holds: for any morphisms $f: X \otimes Z \to Y \otimes \mathbb{R}$

Z and $g: U \to V$, $\operatorname{Tr}^{\mathbb{Z}}_{U \otimes X, V \otimes Y}(g \otimes f) = g \otimes \operatorname{Tr}^{\mathbb{Z}}_{X, Y}(f).$