Lemma. $\langle \mathbf{Pos}_{\mathcal{U}}, \otimes, \mathbf{1} \rangle$ from **??** equipped with the braiding isomorphism $\mathrm{br}_{X,Y} : X \otimes Y \xrightarrow{\cong} Y \otimes X$, given by

$$\mathrm{br}_{X,Y}{}^{\star} : X \otimes Y \to_{\mathbf{Pos}} \mathcal{U}(Y \otimes X)$$
$$\langle x, y \rangle \mapsto \uparrow\{y\} \times \uparrow\{x\},$$

defined for all $X, Y \in \mathrm{Ob}_{\mathbf{Pos}_{\mathcal{U}}}$, forms a symmetric monoidal category.