$f \otimes g : (\mathbf{A} \times \mathbf{C})^{\mathrm{op}} \times (\mathbf{B} \times \mathbf{D}) \to_{\mathbf{Pos}} \mathbf{Bool},$ $\langle \langle a, c \rangle^*, \langle b, d \rangle \rangle \mapsto f(a^*, b) \wedge g(c^*, d).$

The diagrammatic representation of the monoidal product is reported in ??.

Definition (Monoidal product in **DP**). Given two design problems $f: A \rightarrow B$

and $g: \mathbb{C} \longrightarrow \mathbb{D}$, their monoidal product $f \otimes g: \mathbb{A} \times \mathbb{C} \longrightarrow \mathbb{B} \times \mathbb{D}$ is their

conjunction: