

Lemma. Consider $\mathbf{f}, \mathbf{g}, \mathbf{h} \in \text{Hom}_{\mathbf{DP}}(\mathbf{A}; \mathbf{B})$. One has

$$(\mathbf{f} \wedge \mathbf{g}) \wedge \mathbf{h} = (\mathbf{f} \wedge \mathbf{h}) \wedge (\mathbf{g} \wedge \mathbf{h}).$$