

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

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