Definition (Order on morphisms in $\mathbf{Pos}_{\mathcal{U}}$). Given any two morphisms $f, g : X \to Y$ in $\mathbf{Pos}_{\mathcal{U}}$, we define an order between them as

	$f \leq_{\mathbf{Pos}_{\mathcal{U}}} g$	
$f^{\star}(x)$	$\leq_{\mathcal{H}Y} g^{\star}(x)$	$(x), \forall x \in X$