Definition (Order on morphisms in **Pos** φ). Given any two morphisms $f, g: X \to Y$ Y in Pos_{\checkmark} , we define an order between them as

 $f \leq_{\mathbf{Pos}_{\mathbf{9}}} g$

$$\frac{\int \leq_{\text{Pos}_{\mathscr{L}}} g}{f^{\star}(x) \leq_{\mathscr{L}Y} g^{\star}(x), \quad \forall x \in X.}$$