Lemma. There is a contravariant functor $\Pi_r: \mathbf{DP} \to \mathbf{Pos}_{\mathscr{C}}$ which maps: 1. An object (poset) of **DP** to the same object (poset) in **Pos** φ .

2. A morphism dp $\in \text{Hom}_{DP}(F; \mathbb{R})$ to the morphism $g \in \text{Hom}_{Pos_{\mathcal{O}}}(\mathbb{R}; F)$,

where:

 $g: \mathbf{R} \to \mathcal{L}\mathbf{F}$

 $r \mapsto \{f \in \mathbf{F} \mid \mathrm{dp}(f, r) = \mathsf{T}\}.$