

Definition (Order on **DP**)

Suppose that **P** and **Q** are posets, and that **d**, **e** : **P** \rightarrow **Q** are design problems.
We define the order as follows:

$$\frac{\mathbf{d} \leq_{\mathbf{DP}} \mathbf{e}}{\mathbf{d}(p^*, q) \leq_{\mathbf{Bool}} \mathbf{e}(p^*, q)},$$

for all $p \in \mathbf{P}, q \in \mathbf{Q}$.