

$$(\text{mu}_{\mathcal{U}}^{\mathbf{P}} \circ \text{Unc}(\mathbf{f}))([[p_{11}, p_{12}], [p_{21}, p_{22}]]^*, [q_1, q_2])$$

$$= \bigvee_{[p_1, p_2] \in \text{Int}(\mathbf{P})} ((p_{11} \leq p_1) \wedge (p_{12} \leq p_1) \wedge (p_{21} \leq p_2) \wedge (p_{22} \leq p_2))$$

$$\wedge (\mathbf{f}(p_1^*, q_1) \wedge \mathbf{f}(p_2^*, q_2)).$$