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

$$= \bigvee_{[[q_{11}, q_{12}], [q_{21}, q_{22}]] \in \text{Int}(\text{Int}(\mathbf{Q}))} \text{Unc}(\mathbf{f})([p_{11}, p_{12}]^*, [q_{11}, q_{12}]) \wedge \text{Unc}(\mathbf{f})([p_{21}, p_{22}]^*, [q_{21}, q_{22}])$$

$$\wedge (q_{11} \preceq q_1) \wedge (q_{12} \preceq q_1) \wedge (q_{21} \preceq q_2) \wedge (q_{22} \preceq q_2)$$

$$= \bigvee_{[[q_{11}, q_{12}], [q_{21}, q_{22}]] \in \text{Int}(\text{Int}(\mathbf{Q}))} \mathbf{f}(p_{11}^*, q_{11}) \wedge \mathbf{f}(p_{12}^*, q_{12}) \wedge \mathbf{f}(p_{21}^*, q_{21}) \wedge \mathbf{f}(p_{22}^*, q_{22})$$

$$\wedge (q_{11} \preceq q_1) \wedge (q_{12} \preceq q_1) \wedge (q_{21} \preceq q_2) \wedge (q_{22} \preceq q_2).$$