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

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

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

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

 $\land (q_{11} \leq q_1) \land (q_{12} \leq q_1) \land (q_{21} \leq q_2) \land (q_{22} \leq q_2).$