

$$(\text{un}_u^{\mathbf{A}} \circ \text{Unc}(\mathbf{f}))(\textcolor{teal}{p}^*, [\textcolor{red}{q}_1, \textcolor{red}{q}_2]) = \bigvee_{[p_1, p_2] \in \text{Int}(\mathbf{A})} \text{un}_u^{\mathbf{A}}(\textcolor{teal}{p}^*, [\textcolor{red}{p}_1, \textcolor{red}{p}_2]) \wedge \text{Unc}(\textcolor{blue}{f})([\textcolor{teal}{p}_1, \textcolor{teal}{p}_2]^*, [\textcolor{red}{q}_1, \textcolor{red}{q}_2])$$

$$= \bigvee_{[p_1, p_2] \in \text{Int}(\mathbf{A})} (\textcolor{teal}{p} \leq \textcolor{red}{p}_1) \wedge \mathbf{f}(\textcolor{teal}{p}_1^*, \textcolor{red}{q}_1) \wedge \mathbf{f}(\textcolor{teal}{p}_2^*, \textcolor{red}{q}_2)$$