of **P**, such that $p \leq_{\mathbf{P}} q$. Given a poset **P**, one can define a poset of intervals on **P**. Intervals can be ordered by inclusion:

Definition (Poset of intervals). An interval is an ordered pair of elements $\langle p, q \rangle$

 $\langle p_1, q_1 \rangle \leq_{\mathbf{Int}(\mathbf{P})} \langle p_2, q_2 \rangle$ $(p_1 \leq_{\mathbf{P}} p_2) \wedge (q_2 \leq_{\mathbf{P}} q_1)$

$$\frac{\langle p_1, q_1 \rangle \leq_{\text{Int}(\mathbf{P})} \langle p_2, q_2 \rangle}{(p_1 \leq_{\mathbf{P}} p_2) \wedge (q_2 \leq_{\mathbf{P}} q_1)}$$