interval is an ordered pair of elements $\langle l, u \rangle$ of **P**, such that $l \leq_{\mathbf{P}} u$. One can define a *poset of intervals* on **P**, denoted $\mathbf{Int'}(P)$. Intervals can be ordered using

Definition (Another poset of intervals). Given a partially ordered set **P**, an

the following rule:
$$\frac{\langle p_1, p_2 \rangle \leq_{\mathbf{Int'}(\mathbf{P})} \langle q_1, q_2 \rangle}{\langle p_1, p_2 \rangle \leq_{\mathbf{P}} q_1 \rangle \wedge \langle p_2 \leq_{\mathbf{P}} q_2 \rangle}$$