Resolution paths

$$s \quad := \quad \mathbf{D}(x_i^{\mathbf{D}}) \mid \mathbf{E}(l, S) \mid \mathbf{N}(l, x_i^{\mathbf{R}}, S)$$
$$p \quad := \quad [] \mid s \mid p \cdot p \qquad \text{(inductively generated)}$$
$$[] \cdot p = p \cdot [] = p$$
$$(p_1 \cdot p_2) \cdot p_3 = p_1 \cdot (p_2 \cdot p_3)$$

Well-formed paths

$$WF(p) \Leftrightarrow labels(p) \in \mathcal{E}$$

Visibility ordering on paths

$$\frac{label(s_1) < label(s_2)}{s_1 \cdot p_1 < s_2 \cdot p_2} \qquad \frac{p_1 < p_2}{s \cdot p_1 < s \cdot p_2}$$