Figure 1: Typing

$$\begin{split} \ell \downarrow \Omega, x : & \ell_0 A = \ell \downarrow \Omega, x : \ell_0 A \text{ if } \neg (\ell_0 \leq \ell) \\ \ell \downarrow \Omega, x : & \ell_0 A = \ell \downarrow \Omega, x : ^{\perp} A \text{ if } \ell_0 \leq \ell \end{split}$$

 $\ell \downarrow \varnothing = \varnothing$