

$$\begin{array}{c}
 \vdash \textcolor{red}{p}^\perp \Downarrow [\cdot][\cdot]p; \cdot \\
 \hline
 \vdash [\cdot][\cdot]; p, p^\perp
 \end{array}
 \quad
 \begin{array}{c}
 \text{I} \\
 *
 \end{array}$$