

$$\begin{array}{c}
\frac{u : A \rightarrow B \quad \frac{v : A \wedge C}{A} \wedge^{-1}}{B} \rightarrow^{-} \\
\frac{(A \wedge C) \rightarrow B}{(A \rightarrow B) \rightarrow ((A \wedge C) \rightarrow B)} \rightarrow^{+} \quad v : A \wedge C \\
\frac{}{(A \rightarrow B) \rightarrow ((A \wedge C) \rightarrow B)} \rightarrow^{+} \quad u : A \rightarrow B
\end{array}$$

Proof complete.