

A proof of syllogism

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$$\frac{\frac{\frac{\alpha \rightarrow \beta \quad \alpha}{\beta} \quad \beta \rightarrow \gamma}{\gamma}}{\frac{\alpha \rightarrow \gamma}{(\alpha \rightarrow \beta) \rightarrow \alpha \rightarrow \gamma}} \quad \frac{(\alpha \rightarrow \beta) \rightarrow \alpha \rightarrow \gamma}{(\beta \rightarrow \gamma) \rightarrow (\alpha \rightarrow \beta) \rightarrow \alpha \rightarrow \gamma}$$