

Boilerplate latex document

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Abstract

This is the paper's abstract ...

1 Introduction

This is time for all good men to come to the aid of their party!

$$\begin{array}{c}
\text{Foo} \\
\frac{A \quad B}{C} \\
\frac{C}{D}
\end{array}
\qquad
\begin{array}{c}
\text{Bar} \\
\frac{X}{Y}
\end{array}$$

$$\begin{array}{c}
\frac{\frac{\frac{}{\vdash \diamond} \text{ by (Env)}}{\vdash K} \text{ by (Type Const)}}{\vdash K \rightarrow K} \text{ by (Env } x) \\
\frac{\vdash K \rightarrow K}{, y : K \rightarrow K \vdash \diamond} \text{ by (Type Const)} \\
\frac{, y : K \rightarrow K \vdash \diamond}{, y : K \rightarrow K \vdash K} \text{ by (Env } x) \\
\frac{, y : K \rightarrow K, z : K \vdash \diamond}{, y : K \rightarrow K, z : K \vdash y : K \rightarrow K} \text{ by (Val } x) \\
\frac{, y : K \rightarrow K, z : K \vdash y : K \rightarrow K}{, y : K \rightarrow K, z : K \vdash y(z) : K} \text{ by (Val Fun)}
\end{array}$$

$$\begin{array}{c}
\frac{\frac{\frac{}{\vdash \diamond} \text{ by (Env)}}{\vdash K} \text{ by (Type Const)}}{\vdash K \rightarrow K} \text{ by (Env } x) \\
\frac{\vdash K \rightarrow K}{, y : K \rightarrow K \vdash \diamond} \text{ by (Type Const)} \\
\frac{, y : K \rightarrow K \vdash \diamond}{, y : K \rightarrow K \vdash K} \text{ by (Env } x) \\
\frac{, y : K \rightarrow K, z : K \vdash \diamond}{, y : K \rightarrow K, z : K \vdash z : K \rightarrow K} \text{ by (Val } x) \\
\frac{, y : K \rightarrow K, z : K \vdash z : K \rightarrow K}{, y : K \rightarrow K, z : K \vdash \lambda z : K. y(z) : K \rightarrow K} \text{ by (Val } A)
\end{array}$$