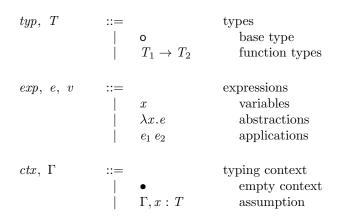
# Specification of the CBN Simply-Typed Lambda Calculus

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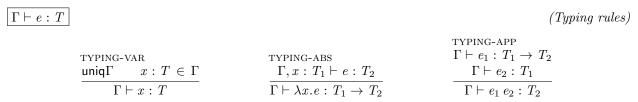
2017

This document demonstrates the use of the Ott tool to generate LATEXinput definitions. It uses the ottalt LATEXpackage available from http://users.eecs.northwestern.edu/~jesse/code/latex/.

#### 1 Syntax of STLC



## 2 Typing rules for STLC



### 3 Small-step rules for STLC

$$\begin{array}{c} e \longrightarrow e' \\ \\ \underline{ \begin{array}{c} \text{STEP-BETA} \\ \hline (\lambda x. e_1) \ e_2 \longrightarrow e_1[x \leadsto e_2] \end{array}} \end{array} \begin{array}{c} \text{STEP-APP} \\ \underline{ \begin{array}{c} e_1 \longrightarrow e'_1 \\ \hline e_1 \ e_2 \longrightarrow e'_1 \ e_2 \end{array}} \\ \hline \end{array}$$