## **Annotated Type Rules**

Rob Spoel, Mathijs Baaijens 2 Apr 2015

## 1 Type system

$$\begin{array}{c} \hline Typing \\ \hline \hline \Gamma \vdash c : \tau_c \end{array} [con] \\ \hline \frac{\Gamma (x) = \tau}{\Gamma \vdash x : \tau} [var] \\ \hline \frac{\Gamma [x \mapsto \tau_x] \vdash e_0 : \tau_0}{\Gamma \vdash fn_\pi x \Rightarrow e_0 : \tau_x \to \tau_0} [fn] \\ \hline \frac{\Gamma [f \mapsto \tau_x \to \tau_0] [x \mapsto \tau_x] \vdash e_0 : \tau_0}{\Gamma \vdash fun_\pi f \ x \Rightarrow e_0 : \tau_x \to \tau_0} [fun] \end{array}$$

Figure 1: Typing