Annotated Type Rules

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1 Type system

$$\boxed{\Gamma \vdash e : \tau}$$

Typing

$$\frac{}{\Gamma \vdash c : \tau_c} \; [con]$$

$$\frac{\Gamma\,(x) = \tau}{\Gamma \vdash x : \tau} \; [var]$$

$$\frac{\Gamma\,[x \mapsto \tau_x] \vdash e_0 : \tau_0}{\Gamma \vdash fn_\pi\, x \Rightarrow e_0 : \tau_x \to \tau_0} \; [fn]$$

$$\frac{\Gamma\,[f \mapsto \tau_x \to \tau_0]\,[x \mapsto \tau_x] \vdash e_0 : \tau_0}{\Gamma \vdash fun_\pi\, f\ x \Rightarrow e_0 : \tau_x \to \tau_0} \; [fun]$$

Figure 1: Typing