$$\frac{}{\Vdash \varnothing} \ (\text{empty}) \quad \frac{\Vdash \Box\Gamma}{\Box\Gamma \vdash \mathbb{L}_i : \Box\mathbb{L}_{i+1}} \ (\text{univ}) \quad \frac{\Gamma \vdash A : \Box\mathbb{L}_i}{\Gamma \vdash A : \Box\mathbb{L}_{i+1}} \ (\text{hier})$$

$$\frac{\Gamma \vdash A : \Box\mathbb{L}_i}{\Vdash \Gamma, x : A} \ (\text{ext}) \quad \frac{\Vdash \Box\Gamma, x : A}{\Box\Gamma, x : A \vdash x : A} \ (\text{var})$$

$$\frac{\Gamma \vdash A : \Box\mathbb{L}_i \qquad \Delta, x : A \vdash B : \Box\mathbb{L}_i}{\Gamma, \Delta \vdash \Pi(x : A).\, B : \Box\mathbb{L}_i} \ (\Pi)$$

$$\frac{\Gamma, x : A \vdash e : B}{\Gamma \vdash \lambda x.\, e : \Pi(x : A).\, B} \ (\Pi_\mathsf{i}) \quad \frac{\Gamma \vdash e_1 : \Pi(x : A).\, B \qquad \Delta \vdash e_2 : A}{\Gamma, \Delta \vdash e_1 \, @ \, e_2 : B[e_1/x]} \ (\Pi_\mathsf{e})$$

$$\frac{\Gamma \vdash A : \Box\mathbb{L}_i \qquad \Delta, x : A \vdash B : \Box\mathbb{L}_i}{\Gamma, \Delta \vdash \Sigma(x : A).\, B : \Box\mathbb{L}_i} \ (\Sigma)$$

$$\frac{\Gamma \vdash e_1 : A \qquad \Delta \vdash e_2 : B[e_1/x]}{\Gamma, \Delta \vdash (e_1, e_2) : \Sigma(x : A).\, B} \ (\Sigma_\mathsf{i}) \quad \frac{\Gamma \vdash e_1 : \Sigma(x : A).\, B \qquad \Delta, x : A, y : B \vdash e_2 : C[(x,y)/z]}{\Gamma, \Delta \vdash \mathsf{let}\ (x,y) = e_1 \ \mathsf{in}\ e_2 : C[e_1/z]} \ (\Sigma_\mathsf{e})$$

$$\frac{\Gamma \vdash A : \Box\mathbb{L}_i}{\Gamma \vdash \Box A : \Box\mathbb{L}_i} \ (\Box)$$

$$\frac{\Box\Gamma \vdash e : A}{\Box\Gamma \vdash \mathsf{box}\, e : \Box A} \ (\Box_\mathsf{i}) \quad \frac{\Box\Gamma \vdash e : \Box A}{\Box\Gamma \vdash \mathsf{unbox}\, e : A} \ (\Box_\mathsf{e})$$

$$\frac{\Gamma \vdash A : \Box\mathbb{L}_i}{\Gamma \vdash [A \, ; n] : \Box\mathbb{L}_i} \ (\text{array})$$

$$\frac{\Gamma_1 \vdash e_1 : A \qquad \ldots \qquad \Gamma_n \vdash e_n : A}{\Gamma_1, \ldots, \Gamma_n \vdash [e_1, \ldots, e_n] : [A \, ; n]} \ (\text{array}_\mathsf{i})$$

$$\frac{\Gamma \vdash e_1 : [A \, ; n] \qquad \Delta, x_1 : A, \ldots, x_n : A \vdash e_2 : B}{\Gamma, \Delta \vdash \mathsf{let}\ [x_1, \ldots, x_n] = e_1 \ \mathsf{in}\ e_2 : B} \ (\text{array}_\mathsf{e})$$

$$\frac{\Box\Gamma, x : \Box A \vdash e : \Box A}{\Box\Gamma \vdash \mathsf{rec}\, x.\, e : \Box A} \ (\text{rec})$$

$$\frac{\Gamma \vdash e : B}{\Gamma, x : \Box A \vdash e : B} \ (\text{wkg}) \quad \frac{\Gamma, x : \Box A, y : \Box A \vdash e : B}{\Gamma, x : \Box A \vdash e[x/y] : B} \ (\text{ctr})$$