$$\frac{\Gamma \vdash \Delta - \frac{\Gamma' \vdash \Delta'}{\Gamma, \Gamma' \vdash \Delta, \Delta'}}{\Gamma, \Gamma' \vdash \Delta, \Delta'} \text{ Mix }$$

$$\frac{\Delta \vdash \Gamma}{\Gamma \vdash \Delta} \text{ Flip}$$

$$\text{Ex}_L = \frac{\Gamma, \nu' : \tau', \nu : \tau, \Gamma' \vdash \Delta}{\Gamma, \nu : \tau, \nu' : \tau', \nu' : \tau', \Delta} = \frac{\Gamma \vdash \Delta, \nu' : \tau', \nu : \tau, \Delta'}{\Gamma \vdash \Delta, \nu : \tau, \nu' : \tau', \Delta'} \text{ Ex}_R$$

$$\star_L = \frac{\Gamma \vdash \nu, \tau, \Delta}{\Gamma, (\nu), \nu : \tau \vdash \Delta} = \frac{\Gamma \vdash \Delta, \nu' : \tau', \nu : \tau, \Delta'}{\Gamma \vdash \Delta, \nu : \tau, \nu' : \tau', \Delta'} \text{ Ex}_R$$

$$\star_L = \frac{\Gamma \vdash \nu, \tau, \Delta}{\Gamma, (\nu), \nu : \tau \vdash \Delta} = \frac{\Gamma \vdash \lambda}{\Gamma \vdash \Delta, \nu : \tau, \nu' : \tau', \Delta} \star_R$$

$$\oplus_{L} = \frac{\Gamma, \nu : \tau_1 \vdash \Delta}{\Gamma, (\log h \nu) : \tau_1 \oplus \tau_2 \vdash \Delta} = \frac{\Gamma \vdash \nu : \tau_1, \Delta}{\Gamma \vdash (\nu_1, \nu_2) : \tau_1 \oplus \tau_2, \Delta} \oplus_{R_1}$$

$$\oplus_{L_2} = \frac{\Gamma, \nu : \tau_2 \vdash \Delta}{\Gamma, (\log h \nu) : \tau_1 \oplus \tau_2 \vdash \Delta} = \frac{\Gamma \vdash \nu : \tau_1, \Delta}{\Gamma \vdash (\log h \nu) : \tau_1 \oplus \tau_2, \Delta} \oplus_{R_2}$$

$$\oplus_{L_3} = \frac{\Gamma, \nu : \tau_1 \vdash \Delta}{\Gamma, (\log h \nu) : \tau_1 \oplus \tau_2, \Delta} = \frac{\Gamma \vdash \nu : \tau_1, \Delta}{\Gamma \vdash (\log h \nu) : \tau_1 \oplus \tau_2, \Delta} \oplus_{R_2}$$

$$\oplus_{L_3} = \frac{\Gamma, \nu : \tau_1 \vdash \Delta, \Delta}{\Gamma, (\nu) : \mu x. \tau \vdash \Delta} = \frac{\Gamma \vdash \nu : \tau_1, \Delta}{\Gamma \vdash (\log h \nu) : \tau_1 \oplus \tau_2, \Delta} \oplus_{R_2}$$

$$\oplus_{L_3} = \frac{\Gamma, \nu : \tau_1 \vdash \Delta, \Delta}{\Gamma, (\nu) : \mu x. \tau \vdash \Delta} = \frac{\Gamma \vdash \nu : \tau_1, \Delta}{\Gamma \vdash (\log h \nu) : \tau_1 \oplus \tau_2, \Delta} \oplus_{R_2}$$

$$\oplus_{L_3} = \frac{\Gamma, \nu : \tau_1, \Delta}{\Gamma, (\nu) : \mu x. \tau \vdash \Delta} = \frac{\Gamma \vdash \nu : \tau_1, \Delta}{\Gamma \vdash (\log h \nu) : \tau_1 \oplus \tau_2, \Delta} \oplus_{R_2}$$

$$\oplus_{L_3} = \frac{\Gamma, \nu : \tau_1, \Delta}{\Gamma, (\nu) : \mu x. \tau, \Delta} \to \Phi_{R_2}$$

$$\oplus_{L_4} = \frac{\Gamma, \nu : \tau_1, \Delta}{\Gamma, (\nu) : \mu x. \tau \vdash \Delta} \oplus_{R_2} = \frac{\Gamma \vdash \nu : \tau_1, \Delta}{\Gamma \vdash (\nu, \ln, \nu) : \tau_1, \Delta} \to_R$$

$$\oplus_{L_4} = \frac{\Gamma, \nu : \tau_1, \tau_2, \tau_1, \tau_2, \tau_1, \Delta}{\Gamma, (\nu) : \mu x. \tau, \Delta} \to_R$$

$$\oplus_{L_4} = \frac{\Gamma, \nu : \tau_1, \tau_2, \tau_1, \tau_2, \tau_1, \Delta}{\Gamma, (\nu) : \mu x. \tau, \Delta} \to_R$$

$$\oplus_{L_4} = \frac{\Gamma, \nu : \tau_1, \tau_2, \tau_1, \tau_2, \tau_1, \Delta}{\Gamma, (\nu) : \mu x. \tau, \Delta} \to_R$$

$$\oplus_{L_4} = \frac{\Gamma, \nu : \tau_1, \tau_2, \tau_1, \tau_2, \tau_1, \Delta}{\Gamma, (\nu) : \mu x. \tau, \Delta} \to_R$$

$$\oplus_{L_4} = \frac{\Gamma, \nu : \tau_1, \tau_2, \tau_1, \tau_2, \tau_1, \Delta}{\Gamma, (\nu) : \mu x. \tau, \Delta} \to_R$$

$$\oplus_{L_4} = \frac{\Gamma, \nu : \tau_1, \nu_2, \tau_1, \tau_2, \tau_1, \Delta}{\Gamma, (\nu) : \mu x. \tau, \Delta} \to_R$$

$$\oplus_{L_4} = \frac{\Gamma, \nu : \tau_1, \nu_2, \tau_2, \tau_1, \tau_2, \Delta}{\Gamma, (\nu) : \mu x. \tau, \Delta} \to_R$$

$$\oplus_{L_4} = \frac{\Gamma, \nu : \tau_1, \nu_2, \tau_2, \tau_1, \tau_2, \Delta}{\Gamma, (\nu) : \mu x. \tau, \Delta} \to_R$$

$$\oplus_{L_4} = \frac{\Gamma, \nu : \tau_1, \nu_2, \tau_2, \tau_1, \tau_2, \Delta}{\Gamma, (\nu) : \mu x. \tau, \Delta} \to_R$$

$$\oplus_{L_4} = \frac{\Gamma, \nu : \tau_1, \nu_2, \tau_2, \tau_2, \tau_2, \Delta}{\Gamma, (\nu) : \mu x. \tau, \tau_2, \tau_2, \Delta} \to_R$$

$$\oplus_{$$

 $\frac{\Xi, x : \tau_1 \vdash \tau_2 : \text{type}}{\Xi \vdash \Sigma_{x : |\tau_1} \tau_2 : \text{type}} \Sigma_T$

