

$$\frac{\vdash p : r_x^i \mapsto d_x^{i'}}{i \stackrel{\text{P}}{\sim} i'}$$

$$\frac{i' \stackrel{\text{P}}{\sim} i}{i \stackrel{\text{P}}{\sim} i'}$$

$$\frac{i \stackrel{\text{P}}{\sim} i' \quad i' \stackrel{\text{P}}{\sim} i''}{i \stackrel{\text{P}}{\sim} i''}$$

$$\frac{}{i \stackrel{\text{P}}{\sim} i}$$