

Regras de inferência do CCS

$$\text{Prefixo} \frac{}{\alpha.P \xrightarrow{\alpha} P}$$

$$\text{EscolhaE} \frac{P \xrightarrow{\alpha} P'}{P + Q \xrightarrow{\alpha} P'}$$

$$\text{EscolhaD} \frac{Q \xrightarrow{\alpha} Q'}{P + Q \xrightarrow{\alpha} Q'}$$

$$\text{Rec} \frac{P \xrightarrow{\alpha} P' \quad \Gamma(X) = P}{X \xrightarrow{\alpha} P'}$$

$$\text{Sync} \frac{P \xrightarrow{a} P' \quad Q \xrightarrow{\bar{a}} Q'}{P|Q \xrightarrow{\tau} P'|Q'}$$

$$\text{ParE} \frac{P \xrightarrow{\alpha} P'}{P|Q \xrightarrow{\alpha} P'|Q}$$

$$\text{ParD} \frac{Q \xrightarrow{\alpha} Q'}{P|Q \xrightarrow{\alpha} P|Q'}$$

$$\text{Res} \frac{P \xrightarrow{\alpha} P' \quad \alpha \notin H}{P \setminus H \xrightarrow{\alpha} P' \setminus H}$$

$$\text{Rel} \frac{P \xrightarrow{\alpha} P'}{P[f] \xrightarrow{f(\alpha)} P'[f]}$$

e onde $f : Act \rightarrow Act$ uma função de renomeação tal que

$$\begin{aligned} f(\tau) &:= \tau, \\ f(\bar{a}) &:= \overline{f(a)} \quad \forall a \in Com. \end{aligned}$$
