

$$\begin{array}{c} \text{CONSTANT EXAMPLE} \\ \hline s \in \Sigma^* \\ \hline \Delta \vdash s : s \end{array}$$

$$\begin{array}{c} \text{USERDEF EXAMPLE} \\ \hline \Delta' \vdash s : r \\ \hline \Delta' \cup \{(r, U)\} \vdash s : U \end{array}$$

$$\begin{array}{c} \text{CONCAT EXAMPLE} \\ \hline \Delta \vdash s_1 : r_1 \quad \Delta \vdash s_2 : r_2 \\ \hline \Delta \vdash s_1 s_2 : r_1 r_2 \end{array}$$

$$\begin{array}{c} \text{OR EXAMPLE} \\ \hline \Delta \vdash s : r_1 \\ \hline \Delta \vdash s : r_1 \mid r_2 \end{array}$$

$$\begin{array}{c} \text{EMPTY STAR} \\ \hline \Delta \vdash \epsilon : r^* \end{array}$$

$$\begin{array}{c} \text{NONEMPTY STAR} \\ \hline \Delta \vdash s_1 : r^* \quad \Delta \vdash s_2 : r \\ \hline \Delta \vdash s_1 s_2 : r^* \end{array}$$