

$$\begin{array}{l}
x \\
M, N, P, Q \quad ::= \\
\quad | \quad x \\
\quad | \quad \lambda x.M \\
\quad | \quad M N \\
\quad | \quad (M) \quad \text{S} \\
\quad | \quad M[N/x] \quad \text{M}
\end{array}$$

$$\begin{array}{l}
\textit{terminals} \quad ::= \\
\quad | \quad \lambda \\
\quad | \quad \Downarrow
\end{array}$$

$$\begin{array}{l}
\textit{formula} \quad ::= \\
\quad | \quad \textit{judgement}
\end{array}$$

$$\begin{array}{l}
\textit{Jop} \quad ::= \\
\quad | \quad M_1 \Downarrow M_2
\end{array}$$

$$\begin{array}{l}
\textit{judgement} \quad ::= \\
\quad | \quad \textit{Jop}
\end{array}$$

$$\begin{array}{l}
\textit{user_syntax} \quad ::= \\
\quad | \quad x \\
\quad | \quad M \\
\quad | \quad \textit{terminals}
\end{array}$$

$M_1 \Downarrow M_2$

$$\begin{array}{l}
\frac{}{\lambda x.M \Downarrow \lambda x.M} \quad \text{LAM} \\
\frac{M \Downarrow \lambda x.P \quad P[N/x] \Downarrow Q}{M N \Downarrow Q} \quad \text{APP}
\end{array}$$

Definition rules: 2 good 0 bad
Definition rule clauses: 4 good 0 bad