termvar, x, y term variable $index,\ i,\ j,\ k$ term, t, r, s, n $_{\rm term}$::=variable \boldsymbol{x} contra $\lambda x : T.t$ unary functions function application $t_1 t_2$ $\Box t$ past necessity functor $\Diamond t$ past possibility functor $\blacksquare t$ necessity functor possibility functor $\mathsf{let}\,\Box \mathit{t}_{1}:\mathit{T}=\mathit{t}_{2}\,\mathsf{in}\,\mathit{t}_{3}$ past necessity elim $\mathsf{let}\,\blacksquare t_1:\, T=t_2\,\mathsf{in}\,t_3$ necessity elim $\mathsf{let}\, \lozenge t_1:\, T=t_2\,\mathsf{in}\, t_3$ past possibility elim $\mathsf{let} \blacklozenge t_1 : \mathit{T} = \mathit{t}_2 \, \mathsf{in} \, \mathit{t}_3$ possibility elim S (t)form, type, A, B, C, Tformula and type \perp false or the empty type $\Box A$ past necessity $\blacksquare A$ necessity $\Diamond A$ past possibility $\blacklozenge A$ possibility $A \to B$ implication $\Gamma, \ \Delta$ type context \emptyset empty context formula el Ax:Ttyped el Γ, Γ' append

 $\Gamma \vdash A$