Inference at $*$
of proof for Lemma connex_functionality_wrt_iff:

$\vdash \forall T$:Type, R, R':$(T \to T \to \mathbb{P})$.
($\forall x$, y:T. $R(x,y) \iff R'(x,y)$) $\Rightarrow$ (Connex(T;x,y.$R(x,y)$) $\iff$ Connex(T;x,y.$R'(x,y)$))
by ((((UnivCD)
CollapseTHENM (Unfold ‘connex‘ 0))·)
CollapseTHENA (
(Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

1. T : Type
2. R : $T \to T \to \mathbb{P}$
3. R' : $T \to T \to \mathbb{P}$
4. $\forall x$, y:T. $R(x,y) \iff R'(x,y)$

$\vdash$ ($\forall x$, y:T. $R(x,y) \vee R(y,x)$) $\iff$ ($\forall x$, y:T. $R'(x,y) \vee R'(y,x)$)

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