Inference at $*$ 1
of proof for Lemma connex_functionality_wrt_implies:

1. T : Type
2. R : $T \to T \to \mathbb{P}$
3. R' : $T \to T \to \mathbb{P}$
4. $\forall x, y{:}T.\ R(x,y) \Rightarrow R'(x,y)$
5. $\forall x, y{:}T.\ R(x,y) \vee R(y,x)$
6. x : T
7. y : T

$\vdash R'(x,y) \vee R'(y,x)$

by ((ReplaceWith $\forall x, y{:}T.\ \{R(x,y) \Rightarrow R'(x,y)\}$ 4)
CollapseTHENA (((Unfold ‘guard‘ 0)

CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t
) inil_term)))·))·

1:

4. $\forall x, y{:}T.\ \{R(x,y) \Rightarrow R'(x,y)\}$
5. $\forall x, y{:}T.\ R(x,y) \vee R(y,x)$
6. x : T
7. y : T

$\vdash R'(x,y) \vee R'(y,x)$

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