Inference at $*$
of proof for Lemma anti_sym_functionality_wrt_iff:

$\vdash \forall T$:Type, R, R':$(T \to T \to \mathbb{P})$.
($\forall x$, y:T. $R(x,y) \iff R'(x,y)$) $\Rightarrow$ (AntiSym(T;x,y.$R(x,y)$) $\iff$ AntiSym(T;x,y.$R'(x,y)$))
by InteriorProof ((((((Unfold 'anti_sym' 0)
CollapseTHENM (RepD))·)
CollapseTHENM (
RWW "-1" 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. $R'(x,y) \Rightarrow R'(y,x) \Rightarrow (x = y)$)
$\iff$ ($\forall x$, y:T. $R'(x,y) \Rightarrow R'(y,x) \Rightarrow (x = y)$)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_80836_{anti_sym_functionality_wrt_iff}.html