Inference at $*$
of proof for Lemma trans_functionality_wrt_iff:

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

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. $R(x,y) \iff R'(x,y)$

$\vdash$ ($\forall a$, b, c:T. $R(b,a) \Rightarrow R(c,b) \Rightarrow R(c,a)$)
$\iff$ ($\forall a$, b, c:T. $R'(b,a) \Rightarrow R'(c,b) \Rightarrow R'(c,a)$)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_82113_{trans_functionality_wrt_iff}.html