

Inference at * 1 1
of proof for Lemma trans_functionality_wrt_iff:

```

1. T : Type
2. R : T → T → ℙ
3. R' : T → T → ℙ
4. ∀x, y:T. R(x,y) ⇐⇒ R'(x,y)
⊢ (∀a, b, c:T. R'(b,a) ⇒ R'(c,b) ⇒ R'(c,a))
  ⇐⇒ (∀a, b, c:T. R'(b,a) ⇒ R'(c,b) ⇒ R'(c,a))
  by ((Fold 'trans' 0)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
), (first_nat 3:n)) (first_tok :t) inil_term))))

```