

Inference at * 1 1
of proof for Lemma quotient_wf:

....eq aux.... NILNIL

1. $T : \text{Type}$
 2. $E : T \rightarrow T \rightarrow \mathbb{P}$
 3. $(\forall a:T. E(a,a)) \ \& \ (\forall a, b:T. E(a,b) \Rightarrow E(b,a)) \ \& \ (\forall a, b, c:T. E(a,b) \Rightarrow E(b,c) \Rightarrow E(a,c))$
 4. $x : T$
- $\vdash E(x,x)$
by ((BHyp 3)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)
)) (first_tok :t) inil_term)))