

Inference at * 1 1 1 1
of proof for Lemma choicef_wf:

1. $xm : \forall P:\mathbb{P}. P \vee (\neg P)$
 2. $T : \text{Type}$
 3. $P : T \rightarrow \mathbb{P}$
 4. $\exists a:T. P(a)$
 5. $y : \{y:T \mid P(y)\} \rightarrow \text{False}$
 6. $xm(\{y:T \mid P(y)\}) = (\text{inr } y)$
- $\vdash \{y:T \mid P(y)\}$
by (((D 4
CollapseTHEN (With a (D 0))))·)
CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·