

Inference at *
of proof for Lemma choicef_wf:

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⊢∀xm:XM, T:Type, P:(T→ ℙ). (∃a:T. P(a)) ⇒ ((∃x:T. P(x)) ∈ T)
  by ((((((UnivCD
  CollapseTHEN (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat
  3:n)) (first_tok :t) inl_term))))))
  CollapseTHEN (Unfold 'choicef 0'))
  CollapseTHEN (RepUnfolds "xmiddle decidable" 1)).
```

1:

1. $xm : \forall P:\mathbb{P}. P \vee (\neg P)$
 2. $T : \text{Type}$
 3. $P : T \rightarrow \mathbb{P}$
 4. $\exists a:T. P(a)$
- ⊢ case $xm(\{y:T \mid P(y)\})$ of inl(z) => $z \mid$ inr(w) => "???" ∈ T