

Inference at * 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. $y : \neg\{y:T \mid P(y)\}$
6. $xm(\{y:T \mid P(y)\}) = (\text{inr } y)$

$\vdash "???" \in T$
by (D 5)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 1000:n)) (first_tok :t) inil_term)))

1:

5. $y : \{y:T \mid P(y)\} \rightarrow \text{False}$
6. $xm(\{y:T \mid P(y)\}) = (\text{inr } y)$

$\vdash \{y:T \mid P(y)\}$
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