

Inference at * 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. $\exists a:T. P(a)$

$\vdash \text{case } xm(\{y:T \mid P(y)\}) \text{ of } \text{inl}(z) \Rightarrow z \mid \text{inr}(w) \Rightarrow \text{"???"} \in T$
by ((At Type (GenConcl $xm(\{y:T \mid P(y)\}) = z$))
CollapseTHENA ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))

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5. $z : \{y:T \mid P(y)\} \vee (\neg\{y:T \mid P(y)\})$
6. $xm(\{y:T \mid P(y)\}) = z$

$\vdash \text{case } z \text{ of } \text{inl}(z) \Rightarrow z \mid \text{inr}(w) \Rightarrow \text{"???"} \in T$
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