

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

$\vdash \text{case } z \text{ of } \text{inl}(z) \Rightarrow z \mid \text{inr}(w) \Rightarrow \text{"???"} \in T$
by (((D 5)
CollapseTHEN (Reduce 0)).
CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term))).

1:

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

$\vdash \text{"???"} \in T$
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