Inference at $*$
of proof for Lemma not_over_exists:

$\vdash \forall T$:Type, Q:($T \to \mathbb{P}$). ($\neg(\exists x{:}T.\ Q(x))) \iff (\forall x{:}T.\ \neg Q(x))$
by ((GenRepD)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
)) (first_tok :t) inil_term)))·

1:

1. T : Type
2. Q : $T \to \mathbb{P}$
3. $\neg(\exists x{:}T.\ Q(x))$
4. x : T

$\vdash \neg Q(x)$

2:

1. T : Type
2. Q : $T \to \mathbb{P}$
3. $\forall x{:}T.\ \neg Q(x)$

$\vdash \neg(\exists x{:}T.\ Q(x))$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_99697_{not_over_exists}.html