Inference at $*$
of proof for Lemma select_nth_tl:

$\vdash \forall T$:Type, as:(T List), n:{0... $\|as\|$}, i:{0..($\|as\|$ - n)$^-$}. nth_tl(n;as)[i] = as[(i+n)]
by ((((CDToVarThen 'as' ListInd)
CollapseTHENM (Reduce 0))·)
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. T List
$\vdash \forall n$:{0...0}, i:{0..(0 - n)$^-$}. nth_tl(n;[])[i] = [][(i+n)]

2:

1. T : Type
2. T List
3. u : T
4. v : T List
5. $\forall n$:{0... $\|v\|$}, i:{0..($\|v\|$ - n)$^-$}. nth_tl(n;v)[i] = v[(i+n)]
$\vdash \forall n$:{0... $\|v\|$+1}, i:{0..(($\|v\|$+1) - n)$^-$}. nth_tl(n;[u / v])[i] = [u / v][(i+n)]

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