Inference at $*$
of proof for Lemma fun_thru_ite:

$\vdash \forall S, T$:Type, f:$(S \rightarrow T)$, b:$\mathbb{B}$, p, q:S.
f(if b then p else q fi) = if b then $f(p)$ else $f(q)$ fi
by ((((((RepD)
CollapseTHENM (OnVar 'b' BoolCases))·)
CollapseTHENM (AbReduce 0))·)

CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok
:t) inil_term)))·

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_88045_{fun_thru_ite}.html