Inference at $*$ 1 1
of proof for Lemma fun_exp_add-sq:

1. $n : \mathbb{Z}$
2. $0 < n$
3. $\forall m{:}\mathbb{N}$, f, x:Top.
   (primrec($(n$ - $1)+m;\lambda x.x;\lambda i,g.\ f \circ g)(x)$)
   $\sim$
   (primrec(n - $1;\lambda x.x;\lambda i,g.\ f \circ g$)(primrec($m;\lambda x.x;\lambda i,g.\ f \circ g)(x)$))
4. $m : \mathbb{N}$
5. f : Top
6. x : Top
7. $\neg(n = 0)$
8. $\neg(n{+}m = 0)$

$\vdash$ (primrec($(n{+}m)$ - $1;\lambda x.x;\lambda i,g.\ f \circ g)(x)$)
$\sim$
(primrec(n - $1;\lambda x.x;\lambda i,g.\ f \circ g$)(primrec($m;\lambda x.x;\lambda i,g.\ f \circ g)(x)$))
by ((((RW (SweepDnC (RevHypC 3)) 0)
CollapseTHENA (Auto·))·)
CollapseTHEN (((
(if (((first_nat 2:n)) = 0) then (Repeat (((EqCD)
CollapseTHEN ((Try (Trivial))·))·
)) else (RepeatFor (first_nat 2:n) (((EqCD)
CollapseTHEN ((Try (Trivial))·))·))))·)

CollapseTHEN (Auto'))·))·

.