Inference at $*$
of proof for Lemma p-fun-exp-compose:

$\vdash \forall T$:Type, n:$\mathbb{N}$, h, f:$(T \to (T + \text{Top}))$. $f\hat{}n \circ h = \text{primrec}(n;h;\lambda i,g.\ f \circ g\ )$
by (InductionOnNat)
CollapseTHEN (RepUR "p-fun-exp" (0)·)·

1:

1. T : Type
$\vdash \forall h$, f:$(T \to (T + \text{Top}))$. p-id() $\circ h = h$

2:

1. T : Type
2. n : $\mathbb{Z}$
3. $0 < n$
4. $\forall h$, f:$(T \to (T + \text{Top}))$. $f\hat{}n - 1 \circ h = \text{primrec}(n - 1;h;\lambda i,g.\ f \circ g\ )$
$\vdash \forall h$, f:$(T \to (T + \text{Top}))$.
primrec(n;p-id();$\lambda i,g.\ f \circ g\ ) \circ h = \text{primrec}(n;h;\lambda i,g.\ f \circ g\ )$

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