

Inference at * 1 1 4 2 1
of proof for Lemma gen_hyp_tp:

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1. A : Type
2. e : A
3. H : A → Type
4. x : A
5. e = x
6. z : H(e)
7. A ∈ Type
8. e ∈ A
9. ∀x:A. (e = x) ∈ Type
⊢ z ≠ 0
  by (λp.let A = get_term_arg 'A' p
      inlet x = get_term_arg 'x' p

      in let e = get_term_arg 'e' p
      in
      At (get_term_arg 'UH' p)
      (Subst

        (mk_equal_term
         (mk_set_term (dv x) A (mk_equal_term A e x))

          e
          x)
        (get_int_arg 'i' p + 2)) p)

```

1:

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6. z : H(x)
7. A ∈ Type
8. e ∈ A
9. ∀x:A. (e = x) ∈ Type
⊢ z ≠ 0

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2:wf..... NILNIL

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⊢ ∀z1.{x:A | e = x} . H(z1) ∈ Type

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3:equality..... NILNIL

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⊢ e = x
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http://www.nuprl.org/FDLcontent/p0_359040_/p121_98517_-{gen_hyp_tp}1_1_4_2_1.html