Inference at $*$
of proof for Lemma eq_int_cases_test:

$\vdash \forall A$:Type, x, y:A, P:($A \rightarrow \mathbb{P}$), i, j:$\mathbb{Z}$.
(P(if ($i =_0 j$) then x else y fi)) $\Rightarrow$ (P(if ($i =_0 j$) then x else y fi))
by ((UnivCD)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
)) (first_tok :t) inil_term)))·

1:

1. A : Type
2. x : A
3. y : A
4. P : $A \rightarrow \mathbb{P}$
5. i : $\mathbb{Z}$
6. j : $\mathbb{Z}$
7. P(if ($i =_0 j$) then x else y fi)

$\vdash P$(if ($i =_0 j$) then x else y fi)

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