

Inference at \* 1 1 4  
of proof for Lemma decidable\_atom\_equal:

.....subterm..... T:t4:n

1.  $a : \text{Atom}$

2.  $b : \text{Atom}$

3.  $\neg(a = b)$

$\vdash (\text{inr } (\lambda x.x)) \in ((a = b) \vee (\neg(a = b)))$

by (Auto\_aux (first\_nat 1:n) ((first\_nat 1:n),(first\_nat 3:n)) (first\_tok :t) inil\_term)

1: .....subterm..... T:t1:n

$\vdash (\lambda x.x) \in (\neg(a = b))$

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