

Inference at *
of proof for Lemma decidable_atom_equal:

```
⊢∀a,b:Atom. Dec(a = b)
  by (((Unfold 'decidable' 0)
    CollapseTHENM (RepD)).)
  CollapseTHENA (
    (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term))).
```

1:

1. $a : \text{Atom}$
 2. $b : \text{Atom}$
- $\vdash (a = b) \vee \neg(a = b)$
- .