

Inference at \*  
of proof for Lemma assert\_of\_eq\_atom:

```
⊢∀x,y:Atom. (↑x =a y) ⇔ (x = y)
by (((Unfold 'eq_atom' 0)
CollapseTHEN (GenUnivCD)).)
CollapseTHENA (
  (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))
```

1:

1.  $x : \text{Atom}$
2.  $y : \text{Atom}$
3.  $\uparrow \text{if } x=y \text{ then tt else ff}$   
 $\vdash x = y$

2:

1.  $x : \text{Atom}$
2.  $y : \text{Atom}$
3.  $x = y$   
 $\vdash \uparrow \text{if } x=y \text{ then tt else ff}$