

Inference at \*  
of proof for Lemma eq\_int\_eq\_true:

$\vdash \forall i, j : \mathbb{Z}. (i = j) \Rightarrow ((i =_0 j) = \text{tt})$   
by ((UnivCD)  
CollapseTHENA ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n), (first\_nat 3:n)  
)) (first\_tok :t) inil\_term))).

1:

1.  $i : \mathbb{Z}$
  2.  $j : \mathbb{Z}$
  3.  $i = j$
- $\vdash (i =_0 j) = \text{tt}$   
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