

Inference at \*  
of proof for Lemma pi1\_wf:

$\vdash \forall A:\text{Type}, B:(A \rightarrow \text{Type}), p:(a:A \times B(a)). (p.1) \in A$   
by ((UnivCD)  
CollapseTHEN ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n),(first\_nat 3:n  
)) (first\_tok :t) inil\_term)))

1:

1.  $A : \text{Type}$
  2.  $B : A \rightarrow \text{Type}$
  3.  $p : a:A \times B(a)$
- $\vdash (p.1) \in A$
- .