

Inference at \*  
of proof for Lemma p-first-singleton:

```
⊢ ∀A, B:Type, f:(A→(B + Top)). p-first([f]) = f
  by ((Auto·)
CollapseTHEN (((Ext)
CollapseTHEN (((Auto·)
CollapseTHEN (((
  Unfold 'p-first' 0)
CollapseTHEN (((Reduce 0)
CollapseTHEN (Auto·)))·)))·)))·
```