

Inference at \*  
of proof for Lemma can-apply-p-restrict:

```
⊢ ∀A, B:Type, f:(A→(B + Top)), P:(A→ ℙ), p:(∀x:A. Dec(P(x))), x:A.  
  (↑can-apply(p-restrict(f;p);x)) ⇔ ((↑can-apply(f;x) & P(x))  
    by (((UnivCD )  
CollapseTHEN (Auto·))·)  
CollapseTHEN (((Unfold 'p-restrict' 0)
```

```
  CollapseTHEN (((((RWO "can-apply-compose-iff" 0)  
THEN (MaAuto·))·)  
CollapseTHEN ((((  
  All (RWO "do-apply-p-filter"))  
CollapseTHEN (Auto·))·)  
CollapseTHEN (((  
  All (RWO "can-apply-p-filter"))  
CollapseTHEN (Auto·))·))·))·)
```