Inference at $*$
of proof for Lemma can-apply-fun-exp-add:

```
⊢∀A:Type, n, m:ℕ, f:(A→(A + Top)), x:A.
  (↑can-apply(f^n+m;x))
  ⇒ {(↑can-apply(f^m;x))
      & (↑can-apply(f^n;do-apply(f^m;x)))
      & do-apply(f^n+m;x) = do-apply(f^n;do-apply(f^m;x))}
  by (Auto')
  CollapseTHEN ((DupHyp (-1))
  CollapseTHEN (((RWO "p-fun-exp-add" (-1))

      CollapseTHENA (Auto·)·)
  CollapseTHEN (((FLemma ‘can-apply-compose‘ [-1])

      CollapseTHENA (Auto·)·)
  CollapseTHEN ((Unfold ‘guard‘ ( 0)·)
  CollapseTHEN ((Auto·)

  CollapseTHEN (((RWO "p-fun-exp-add" 0)
  CollapseTHENA (Auto·)·)
  CollapseTHEN ((
    RWO "do-apply-compose" 0)
  CollapseTHEN (Auto·)·)·)·)·)·)·)·

    .
```

http://www.nuprl.org/FDLcontent/p0_963683_/p35_1185520_{can-apply-fun-exp-add}.html