Inference at ∗
of proof for Lemma p-compose-associative:

```
⊢∀A, B, C, D:Type, h:(A→(B + Top)), g:(B→(C + Top)), f:(C→(D + Top)).
  f o g o h = f o g o h
  by ((Auto·)
  CollapseTHEN (((Ext)
  CollapseTHEN (((Auto·)
  CollapseTHEN (((RepUR “
    p-compose can-apply do-apply“ ( 0)·)
  CollapseTHEN ((if (((first_nat 2:n
    )) = 0) then (Repeat (((((GenConclAtAddr [3;1;1])
CollapseTHENA (Auto·))·)

    CollapseTHEN (((D (-2)·)
  CollapseTHEN (((Reduce 0)
  CollapseTHEN ((Try ((Complete (
    Auto·))·))·))·))·))·)) else (RepeatFor (first_nat 2:n) (((((GenConclAtAddr [3;1;1])

    CollapseTHENA (Auto·))·)
  CollapseTHEN (((D (-2)·)
  CollapseTHEN (((Reduce 0)

     CollapseTHEN ((Try ((Complete (Auto·))·))·))·))·))·)))·))·))·))·)).

    .
```

http://www.nuprl.org/FDLcontent/p0_963683_/p28_1027986_{p-compose-associative}.html