

```

┆ ∀[T:Type]. ∀[P:T → ℙ]. ∀[C:ℙ]. ((∃x:T. ((P x) ⇒ C)) ⇒ (∀x:T. (P x)) ⇒ C)
|
BY RepeatFor 3 ((UD THENA Auto))
|
[1]. T: Type
[2]. P: T → ℙ
[3]. C: ℙ
┆ (∃x:T. ((P x) ⇒ C)) ⇒ (∀x:T. (P x)) ⇒ C
|
BY RepeatFor 2 ((D 0 THENA Auto))
|
4. ∃x:T. ((P x) ⇒ C)
5. ∀x:T. (P x)
┆ C
|
BY D 4
|
4. x: T
5. (P x) ⇒ C
6. ∀x:T. (P x)
┆ C
|
BY (SimpleInstHyp [x] 6. THENA Auto)
|
7. P x
┆ C
|
BY D 5
| \
| 5. ∀x:T. (P x)
| 6. P x
| ┆ P x
| |
1 BY NthHyp 6
| \
| 5. ∀x:T. (P x)
| 6. P x
| 7. C
| ┆ C
|
BY NthHyp 7

```

Extract:

```

λf,g. let x,h = f in h (g x)
  where f : ∃x:T. ((P x) ⇒ C)
        g : ∀x:T. (P x)
        h : (P x) ⇒ C

```