

```

┆ ∀[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 (D 0 THENA Auto)
|
4. (∃x:T. (P x)) ⇒ C
┆ ∀x:T. ((P x) ⇒ C)
|
BY (D 0 THENA Auto)
|
5. x: T
┆ (P x) ⇒ C
|
BY (D 0 THENA Auto)
|
6. P x
┆ C
|
BY D 4
| \
| 4. x: T
| 5. P x
| ┆ ∃x:T. (P x)
| |
1 BY (InstConcl [x]). THENA Auto
| |
| ┆ P x
| |
1 BY NthHyp 5
\
  4. x: T
  5. P x
  6. C
  ┆ C
  |
  BY NthHyp 6

```

Extract:

```

λf,x,p. (f <x, p>)
  where f : (∃x:T. (P x)) ⇒ C
        p : P x

```