

```
⊢ ∀[P:ℙ]. (P ⇒ (¬¬P))
|
BY (UD THENA Auto)
|
[1]. P: ℙ
⊢ P ⇒ (¬¬P)
|
BY (D 0 THENA Auto)
|
2. P
⊢ ¬¬P
|
BY Unfold 'not' 0
|
⊢ (P ⇒ False) ⇒ False
|
BY (D 0 THENA Auto)
|
3. P ⇒ False
⊢ False
|
BY D 3
| \
| ⊢ P
| |
1 BY NthHyp 2
| \
| 3. False
| ⊢ False
|
| BY NthHyp 3
```

```
Extract: λp,np. (np p)
         where p : P
              np : ¬P ≡ (P ⇒ False)
```