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lbl_sq  THM

⊢  SQType(Label)  by Unfold ‘sq_type‘ 0 THEN Auto
|
1. x : Label
2. y : Label
3. x = y
⊢  x ∼ y  by D 2 THEN D 1
|
1. x : Pattern
2. ground_ptn(x)  [not for witness]
3. y : Pattern
4. ground_ptn(y)  [not for witness]
5. x = y
⊢  x ∼ y  by InstLemma ‘ptn_sq‘ [] THEN Unfold ‘sq_type‘ (-1)
|
1. x : Pattern
2. ground_ptn(x)  [not for witness]
3. y : Pattern
4. ground_ptn(y)  [not for witness]
5. x = y
6. ∀x,y:Pattern. x = y ⇒ (x ∼ y)
⊢  x ∼ y  by InstHyp [x;y] (-1) THENA Auto
|
|\
| .....antecedent .....
| 1. x : Pattern
| 2. ground_ptn(x)
| 3. y : Pattern
| 4. ground_ptn(y)
| 5. x = y
| 6. ∀x,y:Pattern. x = y ⇒ (x ∼ y)
| ⊢  x = y  by HypSubst 5 0 THEN Auto
|
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. 1. x : Pattern
. 2. ground_ptn(x)  [not for witness]
. 3. y : Pattern
. 4. ground_ptn(y)  [not for witness]
. 5. x = y
. 6. ∀x,y:Pattern. x = y ⇒ (x ∼ y)
. 7. x ∼ y
. ⊢  x ∼ y  by Unfold ‘guard‘ 0 THEN Auto
END
```