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split_int_domain_by_norm_lower  THM

⊢  ∀P:(ℤ→ℤ→Prop), a:ℤ.
|  (∀b:{...a}. P(a,a) ⇒ P(a,b))
|  ⇒
|  (∀b:{a...}. P(a,b)) ⇒ (∀b:ℤ. P(a,b))  by Auto
|
1. P : ℤ→ℤ→Prop
2. a : ℤ
3. ∀b:{...a}. P(a,a) ⇒ P(a,b)
4. ∀b:{a...}. P(a,b)
5. b : ℤ
⊢  P(a,b)  by Decide: b≤a
|
|\
| 6. b≤a
| ⊢  P(a,b)  by BackThru: Hyp:3
| |
| ⊢  P(a,a)  by BackThru: Hyp:4
|
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. 6. ¬b≤a
. ⊢  P(a,b)  by BackThru: Hyp:4
END
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