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exteq_prod_family_singleton_vs_intseg  THM

⊢  ∀a,a':ℤ.
|  a'-a = 1
|  ⇒
|  (∀B:({a..a'⁻}→Type{i}). (i:{a..a'⁻}→B(i)) =ext ({a:ℤ}→B(a)))
| by Auto
|
1. a : ℤ
2. a' : ℤ
3. a'-a = 1
4. B : {a..a'⁻}→Type
⊢  (i:{a..a'⁻}→B(i)) =ext ({a:ℤ}→B(a))
| by Analyze THEN New:f Analyze THEN FunExtensionality
|
|\
| 5. f : i:{a..a'⁻}→B(i)
| 6. x : {a:ℤ}
| ⊢  f(x) ∈ B(a)  by ApFun: f to: x
| |
| |\
| | .....wf .....
| | ⊢  x ∈ {a..a'⁻}
| |   by BackThru:
| |      Thm*  ∀a,a':ℤ. a'-a = 1 ⇒ ({a..a'⁻} =ext {a:ℤ})
| |      {exteq_singleton_vs_intseg}
| |
| .\
| . 7. f(x) ∈ B(x)
| . ⊢  f(x) ∈ B(a)  by ChangeToEqType-1: B(a)
| . |
| . .....equality .....
| . ⊢  B(x) = B(a) ∈ Type  by Analyze6 THEN Analyze
|
.\
. 5. f : {a:ℤ}→B(a)
. 6. x : {a..a'⁻}
. ⊢  f(x) ∈ B(x)  by Similar to other case
END
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