```
sum_via_intseg_singleton  THM

⊢  ∀a,b:ℤ, e:({a..b⁻}→ℤ). a+1 = b ⇒ (Σ i:{a..b⁻}. e(i)) = e(a)
| by Auto
|
1. a : ℤ
2. b : ℤ
3. e : {a..b⁻}→ℤ
4. a+1 = b
⊢  (Σ i:{a..b⁻}. e(i)) = e(a)
| by BackThru:
|    Thm*  ∀f:(A→A→A), u:A.
|          is_ident(A; f; u)
|          ⇒
|          (∀a,b:ℤ, e:({a..b⁻}→A).
|           a+1 = b ⇒ (Iter(f;u) i:{a..b⁻}. e(i)) = e(a))
|    {iter_via_intseg_singleton}
|
⊢  is_ident(ℤ; (λx,y. x+y); 0)
  by BackThru:
     Thm*  is_ident(ℤ; (λx,y. x+y); 0)    {intadd_ident_zero}
END
```