```
factorial_tail_via_iter_zero  THM

⊢  ∀m,k:ℕ. k<m ⇒ k!m = 0 ∈ ℕ  by Def of k!m
|
1. m : ℕ
2. k : ℕ
3. k<m
⊢  (Π i:{k-m..k⁻}. i+1) = 0 ∈ ℕ
| by (Π i:{k-m..k⁻}. i+1) = 0  Asserted
|    THENA
|    BackThru:
|    Thm*  (∃i:{a..b⁻}. e(i) = 0) ⇒ (Π i:{a..b⁻}. e(i)) = 0
|    {zero_ann_iter_via_intseg}
|
⊢  ∃i:{(k-m)..k⁻}. i+1 = 0  by Witness: -1
END
```