```
hand_def  THM

⊢  equal
|  (and
|  ,λt1:hbool. λt2:hbool. all
|                         (λt:hbool. implies
|                                    (implies(t1,implies(t2,t))
|                                    ,t)))
| by Simpset [‘hol_to_nuprl‘] THEN Simp THEN StrongAuto
|
⊢  (λp:𝔹. λq:𝔹. p∧₂q) = (λt1:𝔹. λt2:𝔹. ∀ᵦt:𝔹. t1⇒₂t2⇒₂t⇒₂t)
| by Simpset [‘ext‘] THEN Simp THEN StrongAuto
|
1. t1 : 𝔹
2. t2 : 𝔹
⊢  (t1∧₂t2) = (∀ᵦt:𝔹. t1⇒₂t2⇒₂t⇒₂t)
| by Simpset [‘bequal‘] THEN Simp THEN StrongAuto THEN HypBackchain
|    THEN
|    Simp
|    THEN
|    StrongAuto
|
|\
| 1. t1 : 𝔹
| 2. t2 : 𝔹
| 3. ∀t:𝔹. (t1 ⇒ t2 ⇒ t) ⇒ t
| ⊢  t1  by BackThru 3 THEN Simp THEN StrongAuto
|
.\
. 1. t1 : 𝔹
. 2. t2 : 𝔹
. 3. ∀t:𝔹. (t1 ⇒ t2 ⇒ t) ⇒ t
. ⊢  t2  by BackThru 3 THEN Simp THEN StrongAuto
END
```