```
bnot_bexists  THM

⊢  ∀T:S, P:(T→𝔹). ¬₂(∃ᵦx:T. P(x)) = (∀ᵦx:T. ¬₂P(x))
| by Id THEN StrongAuto THEN Simpsetp [‘bequal‘] THEN StrongAuto
|
|\
| 1. T : S
| 2. P : T→𝔹
| 3. ¬(∃x:T. P(x))
| 4. x : T
| ⊢  ¬P(x)  by Analyze 0 THEN StrongAuto
| |
| 1. T : S
| 2. P : T→𝔹
| 3. ¬(∃x:T. P(x))
| 4. x : T
| 5. P(x)
| ⊢  False  by Analyze 3 THEN StrongAuto
| |
| 1. T : S
| 2. P : T→𝔹
| 3. x : T
| 4. P(x)
| ⊢  ∃x:T. P(x)  by DTerm x 0 THEN StrongAuto
|
.\
. 1. T : S
. 2. P : T→𝔹
. 3. ∀x:T. ¬P(x)
. ⊢  ¬(∃x:T. P(x))  by Analyze 0 THEN StrongAuto
. |
. 1. T : S
. 2. P : T→𝔹
. 3. ∀x:T. ¬P(x)
. 4. ∃x:T. P(x)
. ⊢  False  by Analyze 4 THEN DTerm x 3 THEN StrongAuto
END
```