```
discrete_equality_inc_equivalence  THM

⊢  {T=₂} ⊆ {T≡₂}  by Unfold ‘subtype‘ 0 THEN UnivCD
|
1. T : Type
2. x : {T=₂}
⊢  x ∈ {T≡₂}  by DiscreteEq 2 THEN Analyze
|
|\
| 3. x ∈ T→T→𝔹
| 4. ∀x@0,y:T. x(x@0,y) ⟺ x@0 = y
| ⊢  x ∈ T→T→𝔹  by Auto
|
|\
| 3. x ∈ T→T→𝔹
| 4. ∀x@0,y:T. x(x@0,y) ⟺ x@0 = y
| 5. x@0 : T
| ⊢  x(x@0,x@0)  by HypBackchain
|
|\
| 3. x ∈ T→T→𝔹
| 4. ∀x@0,y:T. x(x@0,y) ⟺ x@0 = y
| 5. x@0 : T
| 6. y : T
| 7. x(x@0,y)
| ⊢  x(y,x@0)  by FwdThru 4 [-1]
| |
| 8. x@0 = y
| ⊢  x(y,x@0)  by HypBackchain
|
|\
| 3. x ∈ T→T→𝔹
| 4. ∀x@0,y:T. x(x@0,y) ⟺ x@0 = y
| 5. x@0 : T
| 6. y : T
| 7. x(y,x@0)
| ⊢  x(x@0,y)  by HypBackchain
|
.\
. 3. x ∈ T→T→𝔹
. 4. ∀x@0,y:T. x(x@0,y) ⟺ x@0 = y
. 5. x@0 : T
. 6. y : T
. 7. z : T
. 8. x(x@0,y)
. 9. x(y,z)
. ⊢  x(x@0,z)  by FwdThru 4 [-2] THEN FwdThru 4 [-2]
. |
. 10. x@0 = y
. 11. y = z
. ⊢  x(x@0,z)  by HypBackchain
END
```