```
rest_tran_rel  THM

⊢  ∀n:{1...}, m:ℕn, E:(ℕn→ℕn→Prop).
|  Trans x,y:ℕn. x E y ⇒ Trans x,y:ℕm. x E y  by UnivCD
|
1. n : {1...}
2. m : ℕn
3. E : ℕn→ℕn→Prop
4. Trans x,y:ℕn. x E y
⊢  Trans x,y:ℕm. x E y  by Analyze 0
|
5. a : ℕm
⊢  ∀b,c:ℕm. (a E b) ⇒ (b E c) ⇒ (a E c)
| by UnivCD THEN (Unfold ‘trans‘ 4)
|
4. ∀a,b,c:ℕn. (a E b) ⇒ (b E c) ⇒ (a E c)
5. a : ℕm
6. b : ℕm
7. c : ℕm
8. a E b
9. b E c
⊢  a E c  by InstHyp [a;b;c] 4
END
```