```
rel_exp_wf  THM

⊢  ∀n:ℕ, T:Type, R:(T→T→Prop). R^n ∈ T→T→Prop
| by InductionOnNat
THEN RecUnfold ‘rel_exp‘ 0

|    THEN Reduce 0 THEN Try (Complete Auto)

|    THEN SplitOnConclITE THEN Auto
|
.....subterm .....
1. n : ℤ
2. 0<n
3. ∀T:Type, R:(T→T→Prop). R^n-1 ∈ T→T→Prop
4. ¬n = 0
5. T : Type
6. R : T→T→Prop
7. T
8. y : T
9. z : T
⊢  (z R^n-1 y) ∈ Prop
  by % Original proof had : BackThruSomeHyp THEN Auto’

          However this failed as PrimEqCD tried to look at self

     ...
  InstHyp [T; R] 3 THEN Auto
END
```