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0: N_1(x) /\ N_2(y) |- p_1(x,y) (N L.Unf.) [1,2]
1: N_1(x) /\ N_3(0) |- p_1(x,0) (N L.Unf.) [3,4]
3: N_3(0) /\ N_4(0) |- p_1(0,0) (p R.Unf.) [5]
5: N_3(0) /\ N_4(0) |- T (Id)
4: N_1(y) /\ N_3(0) /\ N_4(s(y)) |- p_1(s(y),0) (N L.Unf.) [6,7]
6: s(y)=0 /\ N_1(y) /\ N_3(0) /\ N_5(s(y)) |- p_1(s(y),0) (Ex Falso)
7: N_1(y) /\ N_3(0) /\ N_4(y) /\ N_5(s(y)) |- p_1(s(y),0) (N L.Unf.) [8,9]
8: N_1(0) /\ N_3(0) /\ N_5(s(0)) /\ N_6(0) |- p_1(s(0),0) (p R.Unf.) [10]
10: N_1(0) /\ N_3(0) /\ N_5(s(0)) /\ N_6(0) |- T (Id)
9: N_1(s(z)) /\ N_3(0) /\ N_4(z) /\ N_5(s(s(z))) /\ N_6(s(z)) |- p_1(s(s(z)),0) (p R.Unf.) [11]
11: N_1(s(z)) /\ N_3(0) /\ N_4(z) /\ N_5(s(s(z))) /\ N_6(s(z)) |- p_1(s(z),z) (Weaken) [12]
12: N_1(s(z)) /\ N_2(z) |- p_1(s(z),z) (Subst) [13]
13: N_1(x) /\ N_2(y) |- p_1(x,y) (Back1) [0]
2: N_1(x) /\ N_2(z) /\ N_3(s(z)) |- p_1(x,s(z)) (N L.Unf.) [14,15]
14: N_2(z) /\ N_3(s(z)) /\ N_4(0) |- p_1(0,s(z)) (N L.Unf.) [16,17]
16: N_3(s(0)) /\ N_4(0) /\ N_5(0) |- p_1(0,s(0)) (p R.Unf.) [18]
18: N_3(s(0)) /\ N_4(0) /\ N_5(0) |- T (Id)
17: N_2(y) /\ N_3(s(s(y))) /\ N_4(0) /\ N_5(s(y)) |- p_1(0,s(s(y))) (p R.Unf.) [19]
19: N_2(y) /\ N_3(s(s(y))) /\ N_4(0) /\ N_5(s(y)) |- p_1(s(y),y) (Weaken) [20]
20: N_1(s(y)) /\ N_2(y) |- p_1(s(y),y) (Subst) [21]
21: N_1(x) /\ N_2(y) |- p_1(x,y) (Back1) [0]
15: N_1(y) /\ N_2(z) /\ N_3(s(z)) /\ N_4(s(y)) |- p_1(s(y),s(z)) (N L.Unf.) [22,23]
22: N_1(y) /\ N_3(s(0)) /\ N_4(s(y)) /\ N_5(0) |- p_1(s(y),s(0)) (p R.Unf.) [24]
24: N_1(y) /\ N_3(s(0)) /\ N_4(s(y)) /\ N_5(0) |- T (Id)
23: N_1(y) /\ N_2(w) /\ N_3(s(s(w))) /\ N_4(s(y)) /\ N_5(s(w)) |- p_1(s(y),s(s(w))) (p R.Unf.) [25]
25: N_1(y) /\ N_2(w) /\ N_3(s(s(w))) /\ N_4(s(y)) /\ N_5(s(w)) |- p_1(y,w) (N Fold) [26]
26: N_1(y) /\ N_2(w) /\ N_3(s(s(w))) /\ N_4(s(y)) /\ N_6(s(s(w))) |- p_1(y,w) (Weaken) [27]
27: N_1(y) /\ N_2(w) |- p_1(y,w) (Subst) [28]
28: N_1(x) /\ N_2(y) |- p_1(x,y) (Back1) [0]

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Miss !!!

Root list: 0

Measures proposed for the roots in cycles:

0: [2, 1]

Checking the link of IAAs from buds to roots:

28 to 0: | 1 -> 1 [true]| 2 -> 2 [true] ==> true

21 to 0: | 1 -> 2 [true]| 2 -> 2 [true] ==> true

13 to 0: | 1 -> 1 [true]| 2 -> 1 [true] ==> true

The proof has succeeded