```
exp_zero  THM

⊢  ∀m:ℕ+. (0↑m) = 0  by Analyze 0
|
1. m : ℕ+
⊢  (0↑m) = 0  by NSubsetInd 1
|
|\
| .....basecase .....
| 1. m : ℤ
| 2. 0<m
| 3. 1 = m
| ⊢   by RecCaseSplit ‘exp‘
| |
| |\
| | .....truecase .....
| | 4. m = 0
| | ⊢  1 = 0  by Auto
| |
| .\
| . .....falsecase .....
| . 4. ¬m = 0
| . ⊢  0·(0↑m-1) = 0  by Assert (m-1 = 0)
| . |
| . 5. m-1 = 0
| . ⊢   by RWH (LemmaC Thm* ∀a,b:ℤ. a·b = b·a    {mul_com}) 0
| . |
| . ⊢  (0↑m-1)·0 = 0
| .   by RWH (RevLemmaC Thm* ∀i:ℤ. 0 = i·0    {zero_ann}) 0
|
.\
. .....upcase .....
. 1. m : ℤ
. 2. 1<m
. 3. (0↑m-1) = 0
. ⊢   by RecCaseSplit ‘exp‘
END
```