```
exp_non_zero  THM

⊢  ∀m:ℕ+ , n:ℕ. 0<(m↑n)  by UnivCD
|
1. m : ℕ+
2. n : ℕ
⊢  0<(m↑n)  by NatInd 2
|
|\
| .....basecase .....
| 1. m : ℕ+
| ⊢  0<(m↑0)  by RecCaseSplit ‘exp‘
|
.\
. .....upcase .....
. 2. n : ℤ
. 3. 0<n
. 4. 0<(m↑n-1)
. ⊢   by RecCaseSplit ‘exp‘
. |
. |\
. | .....truecase .....
. | 5. n = 0
. | ⊢  0<1  by Auto
. |
. .\
. . .....falsecase .....
. . 5. ¬n = 0
. . ⊢  0<m·(m↑n-1)
. .   by Inst Thm* ∀a,b:ℤ, n:ℕ+ . a<b ⇒ n·a<n·b    {mul_preserves_lt}
. .      [0;(m↑n-1);m]
END
```