```
nat_to_nat_pair_bij  THM

⊢  Bij(ℕ; ℕ×ℕ; nat_to_nat_pair)  by Analyze
|
|\
| ⊢  Inj(ℕ; ℕ×ℕ; nat_to_nat_pair)
|   by Lemma
|      Thm*  Inj(ℕ; ℕ×ℕ; nat_to_nat_pair)    {nat_to_nat_pair_inj}
|
.\
. ⊢  Surj(ℕ; ℕ×ℕ; nat_to_nat_pair)
.   by Lemma
.      Thm*  Surj(ℕ; ℕ×ℕ; nat_to_nat_pair)    {nat_to_nat_pair_surj}
END
```