```
hmk_pair_def  THM

⊢  ∀'a,'b:S.
|  all
|  (λx:'a. all
|          (λy:'b. equal
|                  (mk_pair(x,y)
|                  ,λa:'a. λb:'b. and(equal(a,x),equal(b,y)))))
| by HN THEN StrongAuto
|
1. 'a : S
2. 'b : S
3. x : 'a
4. y : 'b
⊢  mk_pair(x,y) = (λa:'a. λb:'b. (a =_b x)∧_2(b =_b y))
  by Unab [‘hmk_pair‘] THEN Simp THEN StrongAuto
END
```