```
ho_def  THM

⊢  ∀'c,'b,'a:S.
|  all(λf:'b → 'c. all(λg:'a → 'b. equal(o(f,g),λx:'a. f(g(x)))))
| by Simpsetp [‘hol_to_nuprl‘] THEN StrongAuto
|
1. 'c : S
2. 'b : S
3. 'a : S
4. f : 'b→'c
5. g : 'a→'b
⊢  f o g = (λx:'a. f(g(x)))
  by Unab [‘compose‘] THEN Simpsetp [‘ext‘] THEN StrongAuto
END
```