```
sfa_doc_sexpr_fp  THM

⊢  ∀A:Type. Sexpr(A) =ext (Sexpr(A)×Sexpr(A))+A  by Auto
|
|\
| 1. A : Type
| 2. X : Sexpr(A)
| ⊢  X ∈ (Sexpr(A)×Sexpr(A))+A  by AbRecTypeInd Hyp:-1
| |
| 2. Q : Sexpr(A)→Prop
| 3. ∀X:{X:Sexpr(A)| Q(X) }. X ∈ (Sexpr(A)×Sexpr(A))+A
| 4. X : ({X:Sexpr(A)| Q(X) }×{X:Sexpr(A)| Q(X) })+A
| ⊢  X ∈ (Sexpr(A)×Sexpr(A))+A  by Auto
|
.\
. 1. A : Type
. 2. X : (Sexpr(A)×Sexpr(A))+A
. ⊢  X ∈ Sexpr(A)  by Analyze
. |
. ⊢  X ∈ (Sexpr(A)×Sexpr(A))+A  by Trivial
END
```