

t132\_sheffer2  
(TMX3zn4V1dQkMJuSziMfFKcug7LxjCjBb46)

October 27, 2020

Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v10\_sheffer1 : \iota \Rightarrow o$  be given. Let  $v11\_sheffer1 : \iota \Rightarrow o$  be given. Let  $v12\_sheffer1 : \iota \Rightarrow o$  be given. Let  $l1\_sheffer1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k5\_sheffer1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v10\_sheffer1 X0) \wedge ((v11\_sheffer1 \\ X0) \wedge ((v12\_sheffer1 X0) \wedge (l1\_sheffer1 X0)))))) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 \\ X0)) \Rightarrow (k5\_sheffer1 X0 X2 X1 = k5\_sheffer1 X0 X1 X2))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v10\_sheffer1 X0) \wedge ((v11\_sheffer1 \\ X0) \wedge ((v12\_sheffer1 X0) \wedge (l1\_sheffer1 X0)))))) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 \\ X0)) \Rightarrow (X1 = k5\_sheffer1 X0 (k5\_sheffer1 X0 X1 X1) (k5\_sheffer1 X0 \\ X2 X1)))) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v10\_sheffer1 X0) \wedge ((v11\_sheffer1 \\ X0) \wedge ((v12\_sheffer1 X0) \wedge (l1\_sheffer1 X0)))))) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_struct\_0 \\ X0)) \Rightarrow (k5\_sheffer1 X0 (k5\_sheffer1 X0 X2 X2) (k5\_sheffer1 X0 X2 X1) = \\ X2))) \end{aligned}$$