

t65\_cohsp\_1  
(TMF9PdadM7UH2L3MbaebLg17tYwTUEWeBDD)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_classes1 : \iota \Rightarrow o$  be given. Let  $v1\_coh\_sp : \iota \Rightarrow o$  be given. Let  $k13\_cohsp\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_tarski : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k8\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (k8\_subset\_1 X0 X1 X2 = k3\_xboole\_0 X1 X2) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. ((\neg v1\_xboole\_0 X0) \wedge ((v1\_classes1 X0) \wedge (v1\_coh\_sp X0))) \Rightarrow (k13\_cohsp\_1 X0 = ReplSep (toset (\lambda X1 : \iota. m1\_subset\_1 X1 (k1\_zfmisc\_1 (k3\_tarski X0)))) (\lambda X1 : \iota. \forall X2. (m1\_subset\_1 X2 X0) \Rightarrow (\exists X3. r1\_tarski (k8\_subset\_1 (k3\_tarski X0) X1 X2) (k1\_tarski X3)))) (\lambda X1 : \iota. X1)) \quad (3) \end{aligned}$$

**Theorem 1**

$$\begin{aligned} \forall X0. ((\neg v1\_xboole\_0 X0) \wedge ((v1\_classes1 X0) \wedge (v1\_coh\_sp X0))) \Rightarrow (\forall X1. (X1 \in k13\_cohsp\_1 X0) \Leftrightarrow ((r1\_tarski X1 (k3\_tarski X0)) \wedge (\forall X2. (m1\_subset\_1 X2 X0) \Rightarrow (\exists X3. r1\_tarski (k3\_xboole\_0 X1 X2) (k1\_tarski X3)))))) \end{aligned}$$