

t29\_coh\_sp  
(TMM2tJABTCXFaPLkoQp3KcPHQKfZg8zVNsU)

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Let  $k1\_xboole\_0 : \iota$  be given. Let  $k15\_coh\_sp : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_relat\_2 : \iota \Rightarrow o$  be given. Let  $v3\_relat\_2 : \iota \Rightarrow o$  be given. Let  $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_tarski : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k14\_coh\_sp : \iota \Rightarrow \iota$  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.

$$\forall X0. r1\_tarski k1\_xboole\_0 X0 \quad (2)$$

Assume the following.

$$(v1\_relat\_2 k1\_xboole\_0) \wedge ((v3\_relat\_2 k1\_xboole\_0) \wedge ((v1\_partfun1 k1\_xboole\_0 k1\_xboole\_0) \wedge (m1\_subset\_1 k1\_xboole\_0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k1\_xboole\_0 k1\_xboole\_0)))))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k3\_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. (X2 \in X3) \wedge (X3 \in X0))) \quad (4)$$

Assume the following.

$$k1\_xboole\_0 = the (\lambda X0 : \iota. v1\_xboole\_0 X0) \quad (5)$$

Assume the following.

$$\forall X0. k15\_coh\_sp X0 = k3\_tarski (ReplSep (toset (\lambda X1 : \iota. m1\_subset\_1 X1 (k1\_zfmisc\_1 X0))) (\lambda X1 : \iota. True) (\lambda X1 : \iota. k14\_coh\_sp X1)) \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (X1 = k14\_coh\_sp X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow \\ & ((v1\_partfun1 X2 X0) \wedge ((v1\_relat\_2 X2) \wedge ((v3\_relat\_2 X2) \wedge (m1\_subset\_1 \\ & X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0))))))) \end{aligned} \tag{7}$$

**Theorem 1**  $\forall X0. k1\_xboole\_0 \in k15\_coh\_sp X0.$