

# t21\_coh\_sp (TMYDajxB- dpC498MDH7hH59yRn5woATH14sG)

October 27, 2020

Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_coh\_sp : \iota \Rightarrow \iota$  be given. Let  $k3\_tarski : \iota \Rightarrow \iota$  be given. Let  $k7\_coh\_sp : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k6\_coh\_sp : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $k2\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_coh\_sp : \iota \Rightarrow \iota$  be given. Let  $k3\_coh\_sp : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned}
& \forall X0. \forall X1. (m1\_subset\_1 X1 (k5\_coh\_sp X0)) \Rightarrow (\exists X2. \\
& (m1\_subset\_1 X2 (k4\_coh\_sp X0)) \wedge (\exists X3. (m1\_subset\_1 X3 ( \\
& k3\_coh\_sp X0)) \wedge (\exists X4. (m1\_subset\_1 X4 (k3\_coh\_sp X0)) \wedge ( \\
& (X1 = k4\_tarski (k4\_tarski X3 X4) X2) \wedge ((k3\_tarski X4 = k1\_xboole\_0) \Rightarrow \\
& (k3\_tarski X3 = k1\_xboole\_0)) \wedge (((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 \\
& X2 (k3\_tarski X3) (k3\_tarski X4)) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 \\
& (k2\_zfmisc\_1 (k3\_tarski X3) (k3\_tarski X4)))))) \wedge (\forall X5. \\
& \forall X6. (k2\_tarski X5 X6 \in X3) \Rightarrow (k2\_tarski (k1\_funct\_1 X2 X5) \\
& (k1\_funct\_1 X2 X6) \in X4))))))))) \tag{1}
\end{aligned}$$

Assume the following.

$$\forall X0. \forall X1. k2\_xtuple\_0 (k4\_tarski X0 X1) = X1 \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. k1\_xtuple\_0 (k4\_tarski X0 X1) = X0 \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k5\_coh\_sp X0)) \Rightarrow ((v1\_relat\_1 \\
(k2\_xtuple\_0 X1)) \wedge (v1\_funct\_1 (k2\_xtuple\_0 X1))) \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k5\_coh\_sp X0)) \Rightarrow (k7\_coh\_sp \\
X0 X1 = k2\_xtuple\_0 (k1\_xtuple\_0 X1)) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X1 (k5\_coh\_sp X0))\Rightarrow(k6\_coh\_sp X0 X1 = k1\_xtuple\_0 (k1\_xtuple\_0 X1)) \quad (6)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.\forall X1.(m1\_subset\_1 X1 (k5\_coh\_sp X0))\Rightarrow((\neg(k3\_tarski \\ & (k7\_coh\_sp X0 X1) = k1\_xboole\_0)\wedge(k3\_tarski (k6\_coh\_sp X0 X1)\neq \\ & k1\_xboole\_0))\wedge(((v1\_funct\_1 (k2\_xtuple\_0 X1))\wedge(v1\_funct\_2 \\ & (k2\_xtuple\_0 X1) (k3\_tarski (k6\_coh\_sp X0 X1)) (k3\_tarski (k7\_coh\_sp \\ & X0 X1)))\wedge(m1\_subset\_1 (k2\_xtuple\_0 X1) (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & (k3\_tarski (k6\_coh\_sp X0 X1)) (k3\_tarski (k7\_coh\_sp X0 X1))))))\wedge \\ & (\forall X2.\forall X3.(k2\_tarski X2 X3 \in k6\_coh\_sp X0 X1)\Rightarrow(k2\_tarski \\ & (k1\_funct\_1 (k2\_xtuple\_0 X1) X2) (k1\_funct\_1 (k2\_xtuple\_0 X1) \\ & X3) \in k7\_coh\_sp X0 X1)))) \end{aligned}$$