

t4\_coh\_sp  
(TMF2XpqYnWYGf8NPwXSvVmiVZzL4wrTBstd)

October 27, 2020

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  $k3\_tarski : \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (r1\_tarski (k1\_tarski X0) X1) \Leftrightarrow (X0 \in X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k3\_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. (X2 \in X3) \wedge (X3 \in X0))) \quad (2)$$

Assume the following.

$$\forall X0. (v1\_classes1 X0) \Leftrightarrow (\forall X1. \forall X2. ((X1 \in X0) \wedge (r1\_tarski X2 X1)) \Rightarrow (X2 \in X0)) \quad (3)$$

**Theorem 1**

$$\forall X0. \forall X1. ((\neg v1\_xboole\_0 X1) \wedge ((v1\_classes1 X1) \wedge (v1\_coh\_sp X1))) \Rightarrow ((X0 \in k3\_tarski X1) \Rightarrow (k1\_tarski X0 \in X1))$$