# t6_scmyciel (TM-SKbGLrUW2m8opHsHexVFkwqRnnnFnqk2h)

October 27, 2020

Let $k9\_bspace : \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_card\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k8\_bspace : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v3\_card\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. r1\_tarski\ (k1\_tarski\ X0)\ (k1\_zfmisc\_1\ X0) \tag{1}$$

Assume the following.

$$\forall X0. (k1\_card\_1\ X0 = np\_\_1) \Leftrightarrow (\exists X1. X0 = k1\_tarski\ X1) \tag{2}$$

Assume the following.

$$\forall X0. k1\_card\_1\ (k9\_bspace\ X0) = k1\_card\_1\ X0 \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski\ (k1\_tarski\ X0)\ X1) \Leftrightarrow (X0 \in X1) \tag{4}$$

Assume the following.

$$\forall X0. k9\_bspace\ X0 = k8\_bspace\ X0 \tag{5}$$

Assume the following.

$$\forall X0. \neg v1\_xboole\_0\ (k1\_tarski\ X0) \tag{6}$$

Assume the following.

$$\forall X0. \neg v1\_xboole\_0\ (k1\_zfmisc\_1\ X0) \tag{7}$$

Assume the following.

$$\forall X0. v3\_card\_1\ (k1\_tarski\ X0)\ np\_\_1 \tag{8}$$

Assume the following.

$$\forall X0.k8\_bspace\ X0 = ReplSep\ (toset\ (\lambda X1 : \iota.m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)))\ (\lambda X1 : \iota.v3\_card\_1\ X1\ np\_\_1)\ (\lambda X1 : \iota.X1) \tag{9}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Leftrightarrow (\forall X1.\neg X1 \in X0) \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1\_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \Rightarrow ((m1\_subset\_1\ X1\ X0) \Leftrightarrow (X1 \in X0))) \wedge ((v1\_xboole\_0\ X0) \Rightarrow ((m1\_subset\_1\ X1\ X0) \Leftrightarrow (v1\_xboole\_0\ X1))) \tag{12}$$

**Theorem 1** $\forall X0.k9\_bspace\ (k1\_tarski\ X0) = k1\_tarski\ (k1\_tarski\ X0)$.