t15_sgraph1 (TMH8jbhe1wtJCtbLxFyYZTaTdADouFCoPg3)

October 27, 2020

Let $k2\_sgraph1 : \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(X1 \in k2\_sgraph1\ X0) \Leftrightarrow (((v1\_finset\_1\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))) \wedge (\exists X2.\exists X3.(X2 \in X0) \wedge ((X3 \in X0) \wedge ((X2 \neq X3) \wedge (X1 = k2\_tarski\ X2\ X3))))) \tag{1}$$

Assume the following.

$$\forall X0.\neg(X0 \neq k1\_xboole\_0) \wedge (\forall X1.\neg X1 \in X0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1\_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{3}$$

Theorem 1 $\forall X0.k2\_sgraph1\ (k1\_tarski\ X0) = k1\_xboole\_0.$