t8_fomodel1 (TMQzcgnW6iyXwF99KyFnMKjDyVZkv6TAfLy)

October 27, 2020

Let $v6\_struct\_0 : \iota \Rightarrow o$ be given. Let $v11\_fomodel1 : \iota \Rightarrow o$ be given. Let $l1\_fomodel1 : \iota \Rightarrow o$ be given. Let $k35\_fomodel1 : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_finseq\_2 : \iota \Rightarrow \iota$ be given. Let $k15\_fomodel1 : \iota \Rightarrow \iota$ be given. Let $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((\neg v6\_struct\_0\ X0) \wedge ((v11\_fomodel1\ X0) \wedge (l1\_fomodel1\ X0))) \Rightarrow (r1\_tarski\ (k35\_fomodel1\ X0)\ (k6\_subset\_1\ (k3\_finseq\_2\ (k15\_fomodel1\ X0))\ (k1\_tarski\ k1\_xboole\_0))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1\ X0\ X1) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge ((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)))) \Rightarrow (\forall X2.(m2\_subset\_1\ X2\ X0\ X1) \Leftrightarrow (m1\_subset\_1\ X2\ X1)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.k6\_subset\_1\ X0\ X1 = k4\_xboole\_0\ X0\ X1 \tag{4}$$

Assume the following.

$$\forall X0.((\neg v6\_struct\_0\ X0) \wedge ((v11\_fomodel1\ X0) \wedge (l1\_fomodel1\ X0))) \Rightarrow (\neg v1\_xboole\_0\ (k4\_xboole\_0\ (k3\_finseq\_2\ (k15\_fomodel1\ X0))\ (k1\_tarski\ k1\_xboole\_0))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.m1\_subset\_1\ (k6\_subset\_1\ X0\ X1)\ (k1\_zfmisc\_1\ X0) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski\ X0\ X1)\Leftrightarrow(\forall X2.(X2 \in X0)\Rightarrow (X2 \in X1)) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_xboole\_0\ X1)) \tag{8}$$

Theorem 1

$$\forall X0.\forall X1.((\neg v6\_struct\_0\ X1)\wedge((v11\_fomodel1\ X1)\wedge (l1\_fomodel1\ X1)))\Rightarrow((X0 \in k35\_fomodel1\ X1)\Rightarrow(m2\_subset\_1\ X0\ (k3\_finseq\_2\ (k15\_fomodel1\ X1))\ (k6\_subset\_1\ (k3\_finseq\_2\ (k15\_fomodel1\ X1))\ (k1\_tarski\ k1\_xboole\_0))))$$