t18_xtuple_0 (TMLMExKH3iSnHnad7zsw7qDN5zxPR2xahwJ)

October 27, 2020

Let $k13\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k6\_xtuple\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xtuple\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k11\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.k6\_xtuple\_0\ X0\ X1\ X2\ X3 = k4\_tarski\ (k3\_xtuple\_0\ X0\ X1\ X2)\ X3 \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k3\_xtuple\_0\ X0\ X1\ X2 = k4\_tarski\ (k4\_tarski\ X0\ X1)\ X2 \tag{2}$$

Assume the following.

$$\forall X0.k13\_xtuple\_0\ X0 = k9\_xtuple\_0\ (k11\_xtuple\_0\ X0) \tag{3}$$

Assume the following.

$$\forall X0.k11\_xtuple\_0\ X0 = k9\_xtuple\_0\ (k9\_xtuple\_0\ X0) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k9\_xtuple\_0\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (\exists X3.k4\_tarski\ X2\ X3 \in X0)) \tag{5}$$

Theorem 1

$$\forall X0.\forall X1.\neg(X0 \in k13\_xtuple\_0\ X1) \wedge (\forall X2.\forall X3.\forall X4.\neg k6\_xtuple\_0\ X0\ X2\ X3\ X4 \in X1)$$