t15_toler_1 (TMRfxyNqgwQ-SUS4aWM6DpwGwYJuevzpYUeb)

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Let $v1\_relat\_2 : \iota \Rightarrow o$ be given. Let $v3\_relat\_2 : \iota \Rightarrow o$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_toler\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1\_relat\_2\ X2) \wedge ((v1\_partfun1\ X2\ X0) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))))) \Rightarrow ((X1 \in X0) \Leftrightarrow (k4\_tarski\ X1\ X1 \in X2)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((v3\_relat\_2\ X3) \wedge ((v1\_partfun1\ X3\ X0) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))))) \Rightarrow ((k4\_tarski\ X1\ X2 \in X3) \Rightarrow (k4\_tarski\ X2\ X1 \in X3)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X2\ X2))) \Rightarrow ((k4\_tarski\ X0\ X1 \in X3) \Rightarrow ((X0 \in X2) \wedge (X1 \in X2))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.k4\_tarski\ X0\ X1 = k2\_tarski\ (k2\_tarski\ X0\ X1)\ (k1\_tarski\ X0) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2\_tarski\ X0\ X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_2\ X1) \wedge ((v3\_relat\_2\ X1) \wedge ((v1\_partfun1\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)))))) \Rightarrow (\forall X2.(m1\_toler\_1\ X2\ X0\ X1) \Leftrightarrow (\forall X3.\forall X4.((X3 \in X2) \wedge (X4 \in X2)) \Rightarrow (k4\_tarski\ X3\ X4 \in X1))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.k2\_tarski\ X0\ X1 = k2\_tarski\ X1\ X0 \tag{7}$$

Theorem 1

$$\forall X0.\forall X1.((v1\_relat\_2\ X1)\wedge((v3\_relat\_2\ X1)\wedge((v1\_partfun1\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))))))\Rightarrow(\forall X2.\forall X3.(k4\_tarski\ X2\ X3 \in X1)\Rightarrow(m1\_toler\_1\ (k2\_tarski\ X2\ X3)\ X0\ X1))$$