

t29_toler_1

(TMT6EsgjiSKVppw1eJkvfYSZwnKSWLACMb)

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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 $m1_toler_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_toler_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_relat_2 X2) \wedge ((v3_relat_2 X2) \wedge ((v1_partfun1 X2 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))) \Rightarrow (\forall X3.(X3 \in k9_relat_1 X2 X1) \Leftrightarrow (k4_tarski X1 X3 \in X2))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_2 X1) \wedge ((v3_relat_2 X1) \wedge ((v1_partfun1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))) \Rightarrow (\forall X2.\forall X3.\neg(k4_tarski X2 X3 \in X1) \wedge (\forall X4.((v1_toler_1 X4 X0 X1) \wedge (m1_toler_1 X4 X0 X1)) \Rightarrow (\neg(X2 \in X4) \wedge (X3 \in X4)))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.k4_tarski X0 X1 = k2_tarski (k2_tarski X0 X1) (k1_tarski X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k3_tarski X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (\exists X3.(X2 \in X3) \wedge (X3 \in X0))) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_2 X1) \wedge ((v3_relat_2 X1) \wedge ((v1_partfun1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))) \Rightarrow (\forall X2.(m1_toler_1 X2 X0 X1) \Leftrightarrow (\forall X3.\forall X4.((X3 \in X2) \wedge (X4 \in X2)) \Rightarrow (k4_tarski X3 X4 \in X1))) \quad (5)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.((v1_relat_2 X2)\wedge((v3_relat_2 X2)\wedge((v1_part_fun1 X2 X0)\wedge(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))))))\Rightarrow(\forall X3.(\forall X4.(X4 \in X3)\Leftrightarrow((X1 \in X4)\wedge(m1_toler_1 X4 X0 X2))))\Rightarrow(k9_relat_1 X2 X1 = k3_tarski X3)$$