

t15_abcmiz_0

(TMYA4bR4VfBFQEYJU7eCjQDJ6XW7HWbixCW)

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Let $v4_abcmiz_0 : \iota \Rightarrow o$ be given. Let $l2_abcmiz_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_abcmiz_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_abcmiz_0 : \iota \Rightarrow \iota$ be given. Let $k3_abcmiz_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. (l2_abcmiz_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 (u1_abcmiz_0 X0)) \Rightarrow ((X2 \in k2_abcmiz_0 X0 X1) \Leftrightarrow (X1 \in k3_abcmiz_0 X0 X2)))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((l2_abcmiz_0 X0) \wedge (m1_subset_1 X1 (u1_struct_0 X0))) \Rightarrow (m1_subset_1 (k2_abcmiz_0 X0 X1) (k1_zfmisc_1 (u1_abcmiz_0 X0))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (X0 = X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (r1_tarski X1 X0)) \quad (5)$$

Theorem 1

$$\forall X0. ((\neg v4_abcmiz_0 X0) \wedge (l2_abcmiz_0 X0)) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (k2_abcmiz_0 X0 X1 = \text{ReplSep} (t\text{oset} (\lambda X2 : \iota. m1_subset_1 X2 (u1_abcmiz_0 X0))) (\lambda X2 : \iota. X1 \in k3_abcmiz_0 X0 X2) (\lambda X2 : \iota. X2))))$$