

t25_armstrng
(TMT5b5PkyufDxf8hDgYR7mGPuyZrwd7Emq4)

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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 $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $r1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_armstrng : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k7_armstrng : \iota \Rightarrow \iota$ be given. Let $k4_armstrng : \iota \Rightarrow \iota$ be given. Let $k1_armstrng : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow ((r1_relset_1 X0 X1 X2 X3) \Leftrightarrow (r1_tarski X2 X3)) \quad (2)$$

Assume the following.

$$\forall X0. k9_setfam_1 X0 = k1_zfmisc_1 X0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. v1_relat_1 (k2_zfmisc_1 X0 X1) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (k9_setfam_1 X0) (k9_setfam_1 X0)))) \Rightarrow (m1_subset_1 (k8_armstrng X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 (k9_setfam_1 X0) (k9_setfam_1 X0)))) \quad (5)$$

Assume the following.

$$\forall X0. m1_subset_1 (k7_armstrng X0) (k1_zfmisc_1 (k2_zfmisc_1 (k4_armstrng X0) (k4_armstrng X0))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(v1_relat_1 X1)\Rightarrow(m1_subset_1 (k1_armstrng X0 X1) (k1_zfmisc_1 X0)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (k9_setfam_1 X0) (k9_setfam_1 X0))))\Rightarrow(k8_armstrng X0 X1 = k1_armstrng X1 (k7_armstrng X0)) \quad (8)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(v1_relat_1 X1)) \quad (9)$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (k9_setfam_1 X0) (k9_setfam_1 X0))))\Rightarrow(r1_relset_1 (k9_setfam_1 X0) (k9_setfam_1 X0) (k8_armstrng X0 X1) X1)$$