

t2_mssubfam

(TMUxc9Eb1Gwnmh2xRqHp2ohVqqbF8Dbi57m)

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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 $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_setfam_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ (k1_zfmisc_1 X0))) \Rightarrow ((X1 \in X0) \Rightarrow ((X1 \in k8_setfam_1 X0 X2) \Leftrightarrow (\forall X3. \\ (X3 \in X2) \Rightarrow (X1 \in X3)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (\forall X2. \\ (X2 \in X1) \Rightarrow (X2 \in X0)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 \\ X0))) \Rightarrow (m1_subset_1 (k8_setfam_1 X0 X1) (k1_zfmisc_1 X0)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow \\ (X2 \in X1)) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ (k1_zfmisc_1 X0))) \Rightarrow ((X1 \in X2) \Rightarrow (r1_tarski (k8_setfam_1 X0 X2) X1)) \end{aligned}$$