

t7_lopclset
(TMU5WsXjxtSePXQ8MBAotuLgmazmQ2LXSEJ)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_lopclset : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_lopclset : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ X0))) \Rightarrow (((v3_pre_topc X1 X0) \wedge (v4_pre_topc X1 X0)) \Rightarrow (X1 \in k1_lopclset \\ X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (((\neg v2_struct_0 X0) \wedge ((v2_pre_topc \\ X0) \wedge (l1_pre_topc X0))) \wedge ((m1_subset_1 X1 (k1_lopclset X0)) \wedge (\\ m1_subset_1 X2 (k1_lopclset X0)))) \Rightarrow (k3_lopclset X0 X1 X1 = X1) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0. ((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (v4_pre_topc \\ (k2_struct_0 X0) X0) \tag{4}$$

Assume the following.

$$\forall X0. ((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (v3_pre_topc \\ (k2_struct_0 X0) X0) \tag{5}$$

Assume the following.

$$\forall X0. (l1_pre_topc X0) \Rightarrow (l1_struct_0 X0) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2_struct_0 X0)\wedge((v2_pre_topc X0)\wedge(l1_pre_topc X0)))\wedge((m1_subset_1 X1 (k1_lopclset X0))\wedge(m1_subset_1 X2 (k1_lopclset X0))))\Rightarrow(m2_subset_1 (k3_lopclset X0 X1 X2) (k1_zfmisc_1 (u1_struct_0 X0) (k1_lopclset X0))) \quad (7)$$

Assume the following.

$$\forall X0.(l1_struct_0 X0)\Rightarrow(m1_subset_1 (k2_struct_0 X0) (k1_zfmisc_1 (u1_struct_0 X0))) \quad (8)$$

Assume the following.

$$\forall X0.(l1_struct_0 X0)\Rightarrow(k2_struct_0 X0 = u1_struct_0 X0) \quad (9)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0)\wedge((v2_pre_topc X0)\wedge(l1_pre_topc X0)))\Rightarrow(m2_subset_1 (k2_struct_0 X0) (k1_zfmisc_1 (u1_struct_0 X0) (k1_lopclset X0)))$$