

t21_waybel14

(TMKYQ26yNRVQGSAA4TnDK1FTSnrmnH1vjxkq)

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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 $v3_orders_2 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $v5_orders_2 : \iota \Rightarrow o$ be given. Let $v1_lattice3 : \iota \Rightarrow o$ be given. Let $v2_lattice3 : \iota \Rightarrow o$ be given. Let $l1_waybel_9 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $g1_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $v1_tops_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_yellow_8 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v3_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_setfam_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 (u1_struct_0 X0)))) \Rightarrow ((v1_tops_2 X1 X0) \Leftrightarrow (r1_tarski X1 (u1_pre_topc X0)))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 X0))) \Rightarrow (\forall X2.\forall X3.(g1_pre_topc X0 X1 = g1_pre_topc X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \quad (3)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (m1_subset_1 (u1_pre_topc X0) (k1_zfmisc_1 (k1_zfmisc_1 (u1_struct_0 X0)))) \quad (4)$$

Assume the following.

$$\forall X0.(l1_waybel_9 X0) \Rightarrow ((l1_pre_topc X0) \wedge (l1_orders_2 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(l1_pre_topc\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (u1_struct_0\ X0)))\Rightarrow((v3_pre_topc\ X1\ X0)\Leftrightarrow(X1\in u1_pre_topc\ X0))) \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0\ X0)\wedge(l1_pre_topc\ X0))\Rightarrow(\forall X1. \\ (m1_subset_1\ X1\ (u1_struct_0\ X0))\Rightarrow(\forall X2.(m1_subset_1\ X2 \\ (k1_zfmisc_1\ (k1_zfmisc_1\ (u1_struct_0\ X0))))\Rightarrow((v1_yellow_8 \\ X2\ X0\ X1)\Leftrightarrow((X1\in k8_setfam_1\ (u1_struct_0\ X0)\ X2)\wedge(\forall X3.(\\ m1_subset_1\ X3\ (k1_zfmisc_1\ (u1_struct_0\ X0)))\Rightarrow(\neg(v3_pre_topc \\ X3\ X0)\wedge((X1\in X3)\wedge(\forall X4.(m1_subset_1\ X4\ (k1_zfmisc_1\ (u1_struct_0 \\ X0))))\Rightarrow(\neg(X4\in X2)\wedge(r1_tarSKI\ X4\ X3)))))))))) \quad (7) \end{aligned}$$

Assume the following.

$$\forall X0.(l1_orders_2\ X0)\Rightarrow((v1_lattice3\ X0)\Rightarrow(\neg v2_struct_0\ X0)) \quad (8)$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v2_struct_0\ X0)\wedge((v2_pre_topc\ X0)\wedge(l1_pre_topc \\ X0)))\Rightarrow(\forall X1.((v2_pre_topc\ X1)\wedge((v3_orders_2\ X1)\wedge((v4_orders_2 \\ X1)\wedge((v5_orders_2\ X1)\wedge((v1_lattice3\ X1)\wedge((v2_lattice3\ X1)\wedge \\ (l1_waybel_9\ X1)))))))\Rightarrow(\forall X2.(m1_subset_1\ X2\ (u1_struct_0 \\ X0))\Rightarrow(\forall X3.(m1_subset_1\ X3\ (u1_struct_0\ X1))\Rightarrow(\forall X4. \\ (m1_subset_1\ X4\ (k1_zfmisc_1\ (k1_zfmisc_1\ (u1_struct_0\ X1))))\Rightarrow \\ (((g1_pre_topc\ (u1_struct_0\ X0)\ (u1_pre_topc\ X0) = g1_pre_topc \\ (u1_struct_0\ X1)\ (u1_pre_topc\ X1))\wedge((X2 = X3)\wedge((v1_tops_2\ X4\ X1)\wedge \\ ((v1_yellow_8\ X4\ X1\ X3)\wedge(m1_subset_1\ X4\ (k1_zfmisc_1\ (k1_zfmisc_1 \\ (u1_struct_0\ X1)))))))\Rightarrow((v1_tops_2\ X4\ X0)\wedge((v1_yellow_8\ X4 \\ X0\ X2)\wedge(m1_subset_1\ X4\ (k1_zfmisc_1\ (k1_zfmisc_1\ (u1_struct_0 \\ X0)))))))))) \quad (9) \end{aligned}$$