

t94_tdlat_2

(TMV7FmsRo6XeduRdahFSZvTys7HTTeFDo7p)

October 27, 2020

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 $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k8_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k5_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $g3_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v10_lattices : \iota \Rightarrow o$ be given. Let $v17_lattices : \iota \Rightarrow o$ be given. Let $l3_lattices : \iota \Rightarrow o$ be given. Let $k7_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $k6_tdlat_1 : \iota \Rightarrow \iota$ be given. Let $v3_lattices : \iota \Rightarrow o$ be given. Let $u2_lattices : \iota \Rightarrow \iota$ be given. Let $u1_lattices : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (((v1_funct_1 X1) \wedge ((v1_funct_2 \\ & X1 (k2_zfmisc_1 X0 X0) X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & (k2_zfmisc_1 X0 X0) X0)))))) \wedge ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 \\ & (k2_zfmisc_1 X0 X0) X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\ & (k2_zfmisc_1 X0 X0) X0)))))) \Rightarrow (\forall X3. \forall X4. \forall X5. \\ & (g3_lattices X0 X1 X2 = g3_lattices X3 X4 X5) \Rightarrow ((X0 = X3) \wedge ((X1 = X4) \wedge \\ & (X2 = X5)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow ((\neg v2_struct_0 \\ & (k8_tdlat_1 X0)) \wedge ((v10_lattices (k8_tdlat_1 X0)) \wedge ((v17_lattices \\ & (k8_tdlat_1 X0)) \wedge (l3_lattices (k8_tdlat_1 X0)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow ((v1_funct_1 \\ & (k7_tdlat_1 X0)) \wedge ((v1_funct_2 (k7_tdlat_1 X0) (k2_zfmisc_1 (\\ & k5_tdlat_1 X0) (k5_tdlat_1 X0)) (k5_tdlat_1 X0)) \wedge (m1_subset_1 \\ & (k7_tdlat_1 X0) (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 (k5_tdlat_1 \\ & X0) (k5_tdlat_1 X0)) (k5_tdlat_1 X0)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} \forall X0.((v2_pre_topc\ X0)\wedge(l1_pre_topc\ X0))\Rightarrow((v1_funct_1 \\ (k6_tdlat_1\ X0))\wedge((v1_funct_2\ (k6_tdlat_1\ X0)\ (k2_zfmisc_1\ (\\ k5_tdlat_1\ X0)\ (k5_tdlat_1\ X0))\ (k5_tdlat_1\ X0))\wedge(m1_subset_1 \\ (k6_tdlat_1\ X0)\ (k1_zfmisc_1\ (k2_zfmisc_1\ (k2_zfmisc_1\ (k5_tdlat_1 \\ X0)\ (k5_tdlat_1\ X0))\ (k5_tdlat_1\ X0)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(((v1_funct_1\ X1)\wedge((v1_funct_2 \\ X1\ (k2_zfmisc_1\ X0\ X0)\ X0)\wedge(m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_zfmisc_1 \\ (k2_zfmisc_1\ X0\ X0)\ X0))))))\wedge((v1_funct_1\ X2)\wedge((v1_funct_2\ X2 \\ (k2_zfmisc_1\ X0\ X0)\ X0)\wedge(m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_zfmisc_1 \\ (k2_zfmisc_1\ X0\ X0)\ X0))))))\Rightarrow((v3_lattices\ (g3_lattices\ X0\ X1 \\ X2))\wedge(l3_lattices\ (g3_lattices\ X0\ X1\ X2))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.((v2_pre_topc\ X0)\wedge(l1_pre_topc\ X0))\Rightarrow(k8_tdlat_1 \\ X0 = g3_lattices\ (k5_tdlat_1\ X0)\ (k6_tdlat_1\ X0)\ (k7_tdlat_1\ X0)) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.(l3_lattices\ X0)\Rightarrow((v3_lattices\ X0)\Rightarrow(X0 = g3_lattices \\ (u1_struct_0\ X0)\ (u2_lattices\ X0)\ (u1_lattices\ X0))) \end{aligned} \quad (7)$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v2_struct_0\ X0)\wedge((v2_pre_topc\ X0)\wedge(l1_pre_topc \\ X0)))\Rightarrow(u1_struct_0\ (k8_tdlat_1\ X0) = k5_tdlat_1\ X0) \end{aligned}$$