

t13_tdlat_1 (TMXNz- zAp9KycRL7kPDksH5tCuaNsuVrso5W)

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Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k9_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tops_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\
 & \quad (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\forall X2. \\
 & \quad (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (k9_subset_1 \\
 & \quad (u1_struct_0 X0) (k2_pre_topc X0 (k1_tops_1 X0 (k9_subset_1 (u1_struct_0 \\
 & \quad X0) X1 (k9_subset_1 (u1_struct_0 X0) (k2_pre_topc X0 (k1_tops_1 \\
 & \quad X0 X2)) X2)))) (k9_subset_1 (u1_struct_0 X0) X1 (k9_subset_1 (u1_struct_0 \\
 & \quad X0) (k2_pre_topc X0 (k1_tops_1 X0 X2)) X2)) = k9_subset_1 (u1_struct_0 \\
 & \quad X0) (k2_pre_topc X0 (k1_tops_1 X0 (k9_subset_1 (u1_struct_0 X0) \\
 & \quad X1 X2))) (k9_subset_1 (u1_struct_0 X0) X1 X2))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow (k9_subset_1 X0 X1 X2 = k9_subset_1 X0 X2 X1) \tag{2}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\
 & \quad (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\forall X2. \\
 & \quad (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (k9_subset_1 \\
 & \quad (u1_struct_0 X0) (k2_pre_topc X0 (k1_tops_1 X0 (k9_subset_1 (u1_struct_0 \\
 & \quad X0) (k9_subset_1 (u1_struct_0 X0) (k2_pre_topc X0 (k1_tops_1 X0 \\
 & \quad X1)) X1) X2))) (k9_subset_1 (u1_struct_0 X0) (k9_subset_1 (u1_struct_0 \\
 & \quad X0) (k2_pre_topc X0 (k1_tops_1 X0 X1)) X1) X2) = k9_subset_1 (u1_struct_0 \\
 & \quad X0) (k2_pre_topc X0 (k1_tops_1 X0 (k9_subset_1 (u1_struct_0 X0) \\
 & \quad X1 X2))) (k9_subset_1 (u1_struct_0 X0) X1 X2))))
 \end{aligned}$$