

t32_tex_2

(TMa66CoQpie7BWvUT7i8csyXpDFZ2mik9oN)

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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v3_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_tex_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.(l1_pre_topc X0) \Rightarrow ((\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\
& \quad (u1_struct_0 X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\
& \quad (u1_struct_0 X0))) \Rightarrow ((v3_pre_topc X1 X0) \wedge (v3_pre_topc X2 X0)) \Rightarrow \\
& ((v3_pre_topc (k9_subset_1 (u1_struct_0 X0) X1 X2) X0) \wedge (v3_pre_topc \\
& \quad (k4_subset_1 (u1_struct_0 X0) X1 X2) X0)))) \Rightarrow (\forall X1.(m1_subset_1 \\
& \quad X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\forall X2.(m1_subset_1 \\
& X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v3_pre_topc X1 X0) \wedge ((v3_pre_topc \\
& X2 X0) \wedge ((v2_tex_2 X1 X0) \wedge (v2_tex_2 X2 X0)))) \Rightarrow (v2_tex_2 (k4_subset_1 \\
& \quad (u1_struct_0 X0) X1 X2) X0))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\
& \quad (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\forall X2. \\
& \quad (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v3_pre_topc \\
& X1 X0) \wedge (v3_pre_topc X2 X0)) \Rightarrow (v3_pre_topc (k9_subset_1 (u1_struct_0 \\
& \quad X0) X1 X2) X0))))
\end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\
& \quad (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\forall X2. \\
& \quad (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v3_pre_topc \\
& X1 X0) \wedge (v3_pre_topc X2 X0)) \Rightarrow (v3_pre_topc (k4_subset_1 (u1_struct_0 \\
& \quad X0) X1 X2) X0))))
\end{aligned} \tag{3}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ & X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 \\ & X0)))) \Rightarrow (((v3_pre_topc X1 X0) \wedge (v3_pre_topc X2 X0) \wedge ((v2_tex_2 \\ & X1 X0) \wedge (v2_tex_2 X2 X0)))) \Rightarrow (v2_tex_2 (k4_subset_1 (u1_struct_0 \\ & X0) X1 X2) X0))) \end{aligned}$$