

t11_tex_2

(TMGTYJPXGujuFSiT7FcsADgw66sk9SkKa5L)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_tex_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $g1_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_pre_topc X1 X0) \Rightarrow \\ & (\forall X2.(m1_pre_topc X2 X0) \Rightarrow ((u1_struct_0 X1 = u1_struct_0 \\ & X2) \Rightarrow (g1_pre_topc (u1_struct_0 X1) (u1_pre_topc X1) = g1_pre_topc \\ & (u1_struct_0 X2) (u1_pre_topc X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (m1_pre_topc X0 X0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow ((v1_subset_1 X1 X0) \Leftrightarrow (X1 \neq X0)) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_pre_topc X1 X0) \Rightarrow \\ & ((v1_tex_2 X1 X0) \Leftrightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 \\ & X0)) \Rightarrow ((X2 = u1_struct_0 X1) \Rightarrow (v1_subset_1 X2 (u1_struct_0 X0)))))) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & ((\neg v1_tex_2 X1 X0) \wedge (m1_pre_topc X1 X0)) \Rightarrow (g1_pre_topc (u1_struct_0 \\ & X1) (u1_pre_topc X1) = g1_pre_topc (u1_struct_0 X0) (u1_pre_topc \\ & X0))) \end{aligned}$$