

t5_isomichi

(TMH8nXzXXt1yb9HAJeR4YKpZE3YDy41T1iD)

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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 $v4_tops_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_isomichi : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_isomichi : \iota \Rightarrow \iota \Rightarrow o$ 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.

$$\begin{aligned} & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v4_tops_1 \\ & X1 X0) \Leftrightarrow ((k2_pre_topc X0 (k1_tops_1 X0 X1) = k2_pre_topc X0 X1) \wedge (\\ & k1_tops_1 X0 (k2_pre_topc X0 X1) = k1_tops_1 X0 X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 X0))) \Rightarrow ((v2_isomichi X1 X0) \Leftrightarrow (k2_pre_topc X0 (k1_tops_1 \\ & X0 X1) = k2_pre_topc X0 X1))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 X0))) \Rightarrow ((v1_isomichi X1 X0) \Leftrightarrow (k1_tops_1 X0 (k2_pre_topc \\ & X0 X1) = k1_tops_1 X0 X1))) \end{aligned} \tag{3}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v4_tops_1 \\ & X1 X0) \Leftrightarrow ((v2_isomichi X1 X0) \wedge (v1_isomichi X1 X0)))) \end{aligned}$$