

t24_yellow_9

(TMQ7ncwPVGw2KU5pDmXuJxTahQjj77wLwrS)

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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 $v1_tops_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_cantor_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_cantor_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_cantor_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_cantor_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 (u1_struct_0 X0)))) \Rightarrow \\ & (((v1_tops_2 X1 X0) \wedge ((v2_cantor_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (k1_zfmisc_1 (u1_struct_0 X0)))))) \Leftrightarrow ((v1_tops_2 (k2_cantor_1 \\ & (u1_struct_0 X0) X1) X0) \wedge ((v1_cantor_1 (k2_cantor_1 (u1_struct_0 \\ & X0) X1) X0) \wedge (m1_subset_1 (k2_cantor_1 (u1_struct_0 X0) X1) (k1_zfmisc_1 \\ & (k1_zfmisc_1 (u1_struct_0 X0)))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 (u1_struct_0 X0)))) \Rightarrow \\ & ((u1_pre_topc X0 = k1_cantor_1 (u1_struct_0 X0) X1) \Leftrightarrow ((v1_tops_2 \\ & X1 X0) \wedge ((v1_cantor_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 \\ & (u1_struct_0 X0)))))))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 \\ & X0))) \Rightarrow (k1_cantor_1 X0 (k2_cantor_1 X0 (k1_cantor_1 X0 X1)) = k1_cantor_1 \\ & X0 (k2_cantor_1 X0 X1)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 \\ & X0))) \Rightarrow (m1_subset_1 (k2_cantor_1 X0 X1) (k1_zfmisc_1 (k1_zfmisc_1 \\ & X0))) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 \\ & (u1_struct_0 X0)))) \Rightarrow (((v1_tops_2 (k1_cantor_1 (u1_struct_0 \\ & X0) X1) X0) \wedge ((v2_cantor_1 (k1_cantor_1 (u1_struct_0 X0) X1) X0) \wedge \\ & (m1_subset_1 (k1_cantor_1 (u1_struct_0 X0) X1) (k1_zfmisc_1 (\\ & k1_zfmisc_1 (u1_struct_0 X0)))))) \Rightarrow ((v1_tops_2 X1 X0) \wedge ((v2_cantor_1 \\ & X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 (u1_struct_0 \\ & X0)))))))))) \end{aligned}$$