

t22_intpro_1

(TMGf4kJkGykCUaNY9LqLDi341QqGonTPLtb)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_intpro_1 : \iota$ be given. Let $k3_intpro_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_intpro_1 : \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k7_intpro_1 : \iota \Rightarrow \iota$ be given. Let $k1_subset_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_intpro_1)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 k1_intpro_1) \Rightarrow (\forall X2. (m1_subset_1 X2 k1_intpro_1) \Rightarrow \\ & (\forall X3. (m1_subset_1 X3 k1_intpro_1) \Rightarrow (k3_intpro_1 (k3_intpro_1 \\ & X1 (k3_intpro_1 X2 X3)) (k3_intpro_1 (k3_intpro_1 X1 X2) (k3_intpro_1 \\ & X1 X3)) \in k7_intpro_1 X0)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_intpro_1)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 k1_intpro_1) \Rightarrow (\forall X2. (m1_subset_1 X2 k1_intpro_1) \Rightarrow \\ & (k3_intpro_1 X1 (k3_intpro_1 X2 X1) \in k7_intpro_1 X0))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_intpro_1)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 k1_intpro_1) \Rightarrow (\forall X2. (m1_subset_1 X2 k1_intpro_1) \Rightarrow \\ & (((X1 \in k7_intpro_1 X0) \wedge (k3_intpro_1 X1 X2 \in k7_intpro_1 X0)) \Rightarrow (\\ & X2 \in k7_intpro_1 X0)))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 (k1_zfmisc_1 k1_intpro_1)) \Rightarrow (m1_subset_1 (k7_intpro_1 X0) (k1_zfmisc_1 k1_intpro_1)) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 X0 k1_intpro_1) \wedge (m1_subset_1 X1 k1_intpro_1)) \Rightarrow (m1_subset_1 (k3_intpro_1 X0 X1) k1_intpro_1) \quad (6)$$

Assume the following.

$$\forall X0.m1_subset_1 (k1_subset_1 X0) (k1_zfmisc_1 X0) \quad (7)$$

Assume the following.

$$k8_intro_1 = k7_intro_1 (k1_subset_1 k1_intro_1) \quad (8)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k1_intro_1) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k1_intro_1) \Rightarrow (\forall X2.(m1_subset_1 X2 k1_intro_1) \Rightarrow (k3_intro_1 \\ (k3_intro_1 X0 X1) (k3_intro_1 (k3_intro_1 X2 X0) (k3_intro_1 \\ X2 X1)) \in k8_intro_1))) \end{aligned}$$