

t36_intpro_1
(TMUwQSYKyOPdFzY11dJtLaCrfpvg25cM2au)

October 27, 2020

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 $k4_intpro_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k1_intpro_1)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 k1_intpro_1) \Rightarrow (\forall X2.(m1_subset_1 X2 k1_intpro_1) \Rightarrow \\ & (k3_intpro_1 X1 (k3_intpro_1 X2 (k4_intpro_1 X1 X2)) \in k7_intpro_1 \\ & X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k1_intpro_1) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k1_intpro_1) \Rightarrow (\forall X2.(m1_subset_1 X2 k1_intpro_1) \Rightarrow ((\\ & (k3_intpro_1 X0 X1 \in k8_intpro_1) \wedge (k3_intpro_1 X1 X2 \in k8_intpro_1)) \Rightarrow \\ & (k3_intpro_1 X0 X2 \in k8_intpro_1)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k1_intpro_1) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k1_intpro_1) \Rightarrow (\forall X2.(m1_subset_1 X2 k1_intpro_1) \Rightarrow (k3_intpro_1 \\ & (k3_intpro_1 X0 X1) (k3_intpro_1 (k3_intpro_1 X1 X2) (k3_intpro_1 \\ & X0 X2)) \in k8_intpro_1))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k1_intpro_1) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k1_intpro_1) \Rightarrow (\forall X2.(m1_subset_1 X2 k1_intpro_1) \Rightarrow ((\\ & k3_intpro_1 X0 (k3_intpro_1 X1 X2) \in k8_intpro_1) \Rightarrow (k3_intpro_1 \\ & X1 (k3_intpro_1 X0 X2) \in k8_intpro_1)))) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((m1_subset_1 X0 k1_intpro_1) \wedge (m1_subset_1 \\ & X1 k1_intpro_1)) \Rightarrow (m1_subset_1 (k4_intpro_1 X0 X1) k1_intpro_1) \end{aligned} \tag{5}$$

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.

$$k8_intpro_1 = k7_intpro_1 (k1_subset_1 k1_intpro_1) \quad (8)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k1_intpro_1)\Rightarrow(\forall X1.(m1_subset_1 X1 k1_intpro_1)\Rightarrow(\forall X2.(m1_subset_1 X2 k1_intpro_1)\Rightarrow(k3_intpro_1 (k3_intpro_1 (k4_intpro_1 X0 X1) X2) (k3_intpro_1 X0 (k3_intpro_1 X1 X2)) \in k8_intpro_1)))$$