

t112_flang_2

(TMUBqrx8fgob985McC2V8Ht4AeQ1ncVq2hH)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k8_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k6_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_flang_1 : \iota \Rightarrow \iota$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k4_afinsq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & X0))) \Rightarrow (k2_flang_2 X0 X1 = k4_subset_1 (k8_afinsq_1 X0) (k4_flang_1 \\ & X0 (k2_flang_1 X0)) X1) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (k6_flang_1 X0 (k7_flang_1 \\ & X0 X1 X2) X1 = k6_flang_1 X0 X1 (k7_flang_1 X0 X1 X2))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (k1_flang_2 X0 X1 X2 (k2_xcmplx_0 \\ & X2 np_1) = k4_subset_1 (k3_catalan2 X0) (k7_flang_1 X0 X1 X2) (k7_flang_1 \\ & X0 X1 (k2_xcmplx_0 X2 np_1)))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (k7_flang_1 X0 X1 (k2_xcmplx_0 \\ & X2 np_1) = k6_flang_1 X0 (k7_flang_1 X0 X1 X2) X1)) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow ((k4_subset_1 (k3_catalan2 X0) (k6_flang_1 X0 X1 X2) (k6_flang_1 \\ & X0 X1 X3) = k6_flang_1 X0 X1 (k4_subset_1 (k3_catalan2 X0) X2 X3)) \wedge \\ & (k4_subset_1 (k3_catalan2 X0) (k6_flang_1 X0 X2 X1) (k6_flang_1 \\ & X0 X3 X1) = k6_flang_1 X0 (k4_subset_1 (k3_catalan2 X0) X2 X3) X1)))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow ((k6_flang_1 X0 X1 (k4_flang_1 X0 (k2_flang_1 X0)) = X1) \wedge \\ & (k6_flang_1 X0 (k4_flang_1 X0 (k2_flang_1 X0)) X1 = X1)) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0. k9_setfam_1 X0 = k1_zfmisc_1 X0 \quad (7)$$

Assume the following.

$$\forall X0. k3_catalan2 X0 = k8_afinsq_1 X0 \quad (8)$$

Assume the following.

$$\forall X0. k2_flang_1 X0 = k4_afinsq_1 X0 \quad (9)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((m1_subset_1 X1 (k1_zfmisc_1 \\ & (k3_catalan2 X0))) \wedge (v7_ordinal1 X2)) \Rightarrow (m1_subset_1 (k7_flang_1 \\ & X0 X1 X2) (k1_zfmisc_1 (k3_catalan2 X0))) \end{aligned} \quad (10)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k3_catalan2 X0)) \Rightarrow (m1_subset_1 (k4_flang_1 X0 X1) (k1_zfmisc_1 (k3_catalan2 X0))) \quad (11)$$

Assume the following.

$$\forall X0. m1_subset_1 (k2_flang_1 X0) (k3_catalan2 X0) \quad (12)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ & X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (k6_flang_1 X0 (k2_flang_2 \\ & X0 X1) (k7_flang_1 X0 X1 X2) = k1_flang_2 X0 X1 X2 (k2_xcmplx_0 X2 np_1))) \end{aligned}$$