

t55_flang_1

(TMHyb6DMMHuVZfVH7jnV1LxdmnkNMKVu7DD)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $k8_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (((r1_tarski X1 (k8_flang_1 X0 X2)) \wedge (r1_tarski X3 (k8_flang_1 \\ & X0 X2))) \Rightarrow (r1_tarski (k6_flang_1 X0 X1 X3) (k8_flang_1 X0 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (r1_tarski (k7_flang_1 X0 \\ & X1 X2) (k8_flang_1 X0 X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow ((k2_flang_1 X0 \in X1) \Rightarrow (k2_flang_1 \\ & X0 \in k7_flang_1 X0 X1 X2))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow ((k2_flang_1 X0 \in X1) \Rightarrow ((r1_tarski X2 (k6_flang_1 X0 X2 X1)) \wedge \\ & (r1_tarski X2 (k6_flang_1 X0 X1 X2)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 X0 \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0)))\Rightarrow(m1_subset_1 (k8_flang_1 X0 X1) (k1_zfmisc_1 (k3_catalan2 X0))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0)))\wedge(v7_ordinal1 X2))\Rightarrow(m1_subset_1 (k7_flang_1 X0 X1 X2) (k1_zfmisc_1 (k3_catalan2 X0))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1)\Leftrightarrow((r1_tarski X0 X1)\wedge(r1_tarski X1 X0)) \quad (8)$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0)))\Rightarrow(\forall X2.(v7_ordinal1 X2)\Rightarrow(((k2_flang_1 X0 \in X1)\Rightarrow((k8_flang_1 X0 X1 = k6_flang_1 X0 (k8_flang_1 X0 X1) (k7_flang_1 X0 X1 X2))\wedge(k8_flang_1 X0 X1 = k6_flang_1 X0 (k7_flang_1 X0 X1 X2) (k8_flang_1 X0 X1))))))$$