

l2_waybel22

(TMZnKiuV8FKT9NwdW1kRASfXQ8HranH4GJ3)

October 27, 2020

Let $v3_orders_2 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $v5_orders_2 : \iota \Rightarrow o$ be given. Let $v1_lattice3 : \iota \Rightarrow o$ be given. Let $v2_lattice3 : \iota \Rightarrow o$ be given. Let $v3_lattice3 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_yellow_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ 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.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (\forall X2. (X2 \in X0) \Leftrightarrow (X2 \in X1)) \Rightarrow (X0 = X1) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0 : \iota \Rightarrow o. \forall X1. k1_yellow_0 X1 (ReplSep (toset \\ & (\lambda X2 : \iota. m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X1)))) \\ & (\lambda X2 : \iota. X0 X2) (\lambda X2 : \iota. k1_yellow_0 X1 X2)) = k1_yellow_0 \\ & X1 (k3_tarski (ReplSep (toset (\lambda X2 : \iota. m1_subset_1 X2 (k1_zfmisc_1 \\ & (u1_struct_0 X1)))) (\lambda X2 : \iota. X0 X2) (\lambda X2 : \iota. X2))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. k9_setfam_1 X0 = k1_zfmisc_1 X0 \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 \\ & X0) \wedge ((v1_lattice3 X0) \wedge ((v2_lattice3 X0) \wedge ((v3_lattice3 X0) \wedge \\ & (l1_orders_2 X0)))))) \Rightarrow (\forall X1.(r1_tarski X1 (k9_setfam_1 \\ & (u1_struct_0 X0))) \Rightarrow (k1_yellow_0 X0 (k3_tarski X1) = k1_yellow_0 \\ & X0 (ReplSep (toset (\lambda X2 : \iota.m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 \\ & X0)))) (\lambda X2 : \iota.X2 \in X1) (\lambda X2 : \iota.k1_yellow_0 X0 X2)))))) \end{aligned}$$