

t11_waybel16
(TMdXx9RcrXVh6fasUtAiA2sEKBXLRb9c4cJ)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $v2_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_yellow_1 : \iota \Rightarrow \iota$ be given. Let $v13_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((v13_waybel_0 X1 (k3_yellow_1 X0)) \wedge (m1_subset_1 \\ X1 (k1_zfmisc_1 (u1_struct_0 (k3_yellow_1 X0)))))) \Rightarrow ((v2_waybel_0 \\ X1 (k3_yellow_1 X0)) \Leftrightarrow (\forall X2. \forall X3. ((X2 \in X1) \wedge (X3 \in X1)) \Rightarrow \\ (k3_xboole_0 X2 X3 \in X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ (k3_yellow_1 X0)))) \Rightarrow ((v13_waybel_0 X1 (k3_yellow_1 X0)) \Leftrightarrow (\forall X2. \\ \forall X3. ((r1_tarski X2 X3) \wedge ((r1_tarski X3 X0) \wedge (X2 \in X1)) \Rightarrow (\\ X3 \in X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. u1_struct_0 (k3_yellow_1 X0) = k9_setfam_1 X0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (4)$$

Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_subset_1 X1 (u1_struct_0 (k3_yellow_1 \\ X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (u1_struct_0 (k3_yellow_1 \\ X0))) \Rightarrow ((k3_xboole_0 X1 X2 \in k9_setfam_1 X0) \wedge (k2_xboole_0 X1 X2 \in \\ k9_setfam_1 X0))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0. \neg v1_xboole_0 (k1_zfmisc_1 X0) \quad (7)$$

Assume the following.

$$\forall X0. m1_subset_1 (k9_setfam_1 X0) (k1_zfmisc_1 (k1_zfmisc_1 X0)) \quad (8)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_zfmisc_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (r1_tarSKI X2 X0)) \quad (9)$$

Theorem 1

$$\forall X0. (\neg v1_xboole_0 (k9_setfam_1 X0)) \wedge ((v2_waybel_0 (k9_setfam_1 X0) (k3_yellow_1 X0)) \wedge ((v13_waybel_0 (k9_setfam_1 X0) (k3_yellow_1 X0)) \wedge (m1_subset_1 (k9_setfam_1 X0) (k1_zfmisc_1 (u1_struct_0 (k3_yellow_1 X0))))))$$