

t15_incsp_1
(TMJScs6gnBUPTSxCgBvVYELaQReZR1dr8Xi)

October 27, 2020

Let $v15_incsp_1 : \iota \Rightarrow o$ be given. Let $l2_incsp_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_incsp_1 : \iota \Rightarrow \iota$ be given. Let $v3_incsp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1_incsp_1 : \iota \Rightarrow o$ be given. Let $u2_incsp_1 : \iota \Rightarrow \iota$ be given. Let $r4_incsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_incsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v6_incsp_1 : \iota \Rightarrow o$ be given. Let $v5_incsp_1 : \iota \Rightarrow o$ be given. Let $v7_incsp_1 : \iota \Rightarrow o$ be given. Let $v8_incsp_1 : \iota \Rightarrow o$ be given. Let $v9_incsp_1 : \iota \Rightarrow o$ be given. Let $v10_incsp_1 : \iota \Rightarrow o$ be given. Let $v11_incsp_1 : \iota \Rightarrow o$ be given. Let $v12_incsp_1 : \iota \Rightarrow o$ be given. Let $v13_incsp_1 : \iota \Rightarrow o$ be given. Let $v14_incsp_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(l1_incsp_1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (u2_incsp_1 \\ & \quad X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_incsp_1 X0)) \Rightarrow (\forall X3. \\ & \quad (m1_subset_1 X3 (u1_incsp_1 X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 \\ & \quad (u1_incsp_1 X0)) \Rightarrow ((r4_incsp_1 X0 (k8_domain_1 (u1_incsp_1 X0) \\ & \quad X2 X3 X4) X1) \Leftrightarrow ((r1_incsp_1 X0 X2 X1) \wedge ((r1_incsp_1 X0 X3 X1) \wedge (r1_incsp_1 \\ & \quad X0 X4 X1)))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1_incsp_1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (u2_incsp_1 \\ & \quad X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_incsp_1 X0)) \Rightarrow (\forall X3. \\ & \quad (m1_subset_1 X3 (u1_incsp_1 X0)) \Rightarrow ((r4_incsp_1 X0 (k7_domain_1 \\ & \quad (u1_incsp_1 X0) X2 X3) X1) \Leftrightarrow ((r1_incsp_1 X0 X2 X1) \wedge (r1_incsp_1 X0 \\ & \quad X3 X1)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.(l1_incsp_1 X0) \Rightarrow (\neg v1_xboole_0 (u1_incsp_1 X0)) \tag{3}$$

Assume the following.

$$\forall X0.(l2_incsp_1 X0) \Rightarrow (l1_incsp_1 X0) \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((\neg v1_xboole_0 X0) \wedge \\ & ((m1_subset_1 X1 X0) \wedge ((m1_subset_1 X2 X0) \wedge (m1_subset_1 X3 X0)))) \Rightarrow \\ & (m1_subset_1 (k8_domain_1 X0 X1 X2 X3) (k1_zfmisc_1 X0)) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1_incsp_1 X0) \Rightarrow ((v6_incsp_1 X0) \Leftrightarrow (\forall X1. (m1_subset_1 \\ & X1 (u1_incsp_1 X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 (u1_incsp_1 X0)) \Rightarrow \\ & (\exists X3. (m1_subset_1 X3 (u2_incsp_1 X0)) \wedge (r4_incsp_1 X0 (\\ & k7_domain_1 (u1_incsp_1 X0) X1 X2) X3)))))) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1_incsp_1 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_incsp_1 X0))) \Rightarrow ((v3_incsp_1 X1 X0) \Leftrightarrow (\exists X2. (m1_subset_1 \\ & X2 (u2_incsp_1 X0)) \wedge (r4_incsp_1 X0 X1 X2)))) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0. (l2_incsp_1 X0) \Rightarrow ((v15_incsp_1 X0) \Rightarrow ((v5_incsp_1 X0) \wedge \\ & ((v6_incsp_1 X0) \wedge ((v7_incsp_1 X0) \wedge ((v8_incsp_1 X0) \wedge ((v9_incsp_1 \\ & X0) \wedge ((v10_incsp_1 X0) \wedge ((v11_incsp_1 X0) \wedge ((v12_incsp_1 X0) \wedge \\ & ((v13_incsp_1 X0) \wedge (v14_incsp_1 X0)))))))))) \end{aligned} \quad (8)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((v15_incsp_1 X0) \wedge (l2_incsp_1 X0)) \Rightarrow (\forall X1. (\\ & m1_subset_1 X1 (u1_incsp_1 X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 (\\ & u1_incsp_1 X0)) \Rightarrow (v3_incsp_1 (k8_domain_1 (u1_incsp_1 X0) X1 X1 \\ & X2) X0))) \end{aligned}$$