

t35\_inensp\_1 (TMN-  
sQC9ufrpJGLEb4icZQyMMZAJjp6DpEaw)

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Let  $v15.inensp_1 : \iota \Rightarrow o$  be given. Let  $l2.inensp_1 : \iota \Rightarrow o$  be given. Let  $m1.subset_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1.inensp_1 : \iota \Rightarrow \iota$  be given. Let  $r1.inensp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1.inensp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v3.inensp_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k8.domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $l1.inensp_1 : \iota \Rightarrow o$  be given. Let  $u2.inensp_1 : \iota \Rightarrow \iota$  be given. Let  $r4.inensp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  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. Assume the following.

$$\begin{aligned} \forall X0.(l1.inensp_1 X0) \Rightarrow (\forall X1.(m1.subset_1 X1 (u2.inensp_1 \\ X0)) \Rightarrow (\forall X2.(m1.subset_1 X2 (u1.inensp_1 X0)) \Rightarrow (\forall X3. \\ (m1.subset_1 X3 (u1.inensp_1 X0)) \Rightarrow (\forall X4.(m1.subset_1 X4 \\ (u1.inensp_1 X0)) \Rightarrow ((r4.inensp_1 X0 (k8.domain_1 (u1.inensp_1 X0) \\ X2 X3 X4) X1) \Leftrightarrow ((r1.inensp_1 X0 X2 X1) \wedge ((r1.inensp_1 X0 X3 X1) \wedge (r1.inensp_1 \\ X0 X4 X1)))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(l1.inensp_1 X0) \Rightarrow (\forall X1.(m1.subset_1 X1 (u2.inensp_1 \\ X0)) \Rightarrow (\forall X2.(m1.subset_1 X2 (u1.inensp_1 X0)) \Rightarrow (\forall X3. \\ (m1.subset_1 X3 (u1.inensp_1 X0)) \Rightarrow ((r4.inensp_1 X0 (k7.domain_1 \\ (u1.inensp_1 X0) X2 X3) X1) \Leftrightarrow ((r1.inensp_1 X0 X2 X1) \wedge (r1.inensp_1 X0 \\ X3 X1)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.(l1.inensp_1 X0) \Rightarrow (\neg v1.xboole_0 (u1.inensp_1 X0)) \tag{3}$$

Assume the following.

$$\forall X0.(l2.inensp_1 X0) \Rightarrow (l1.inensp_1 X0) \tag{4}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1.xboole_0 X0) \wedge \\ ((m1.subset_1 X1 X0) \wedge ((m1.subset_1 X2 X0) \wedge (m1.subset_1 X3 X0)))) \Rightarrow \\ (m1.subset_1 (k8.domain_1 X0 X1 X2 X3) (k1.zfmisc_1 X0)) \end{aligned} \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v15\_incsp\_1 X0)\wedge(l2\_incsp\_1 X0))\wedge((m1\_subset\_1 X1 (u1\_incsp\_1 X0))\wedge(m1\_subset\_1 X2 (u1\_incsp\_1 X0))))\Rightarrow(m1\_subset\_1 (k1\_incsp\_1 X0 X1 X2) (u2\_incsp\_1 X0)) \quad (6)$$

Assume the following.

$$\forall X0.(l1\_incsp\_1 X0)\Rightarrow(\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_incsp\_1 X0)))\Rightarrow((v3\_incsp\_1 X1 X0)\Leftrightarrow(\exists X2.(m1\_subset\_1 X2 (u2\_incsp\_1 X0))\wedge(r4\_incsp\_1 X0 X1 X2)))) \quad (7)$$

Assume the following.

$$\forall X0.(((v15\_incsp\_1 X0)\wedge(l2\_incsp\_1 X0))\Rightarrow(\forall X1.(m1\_subset\_1 X1 (u1\_incsp\_1 X0))\Rightarrow(\forall X2.(m1\_subset\_1 X2 (u1\_incsp\_1 X0))\Rightarrow((X1\neq X2)\Rightarrow(\forall X3.(m1\_subset\_1 X3 (u2\_incsp\_1 X0))\Rightarrow((X3 = k1\_incsp\_1 X0 X1 X2)\Leftrightarrow(r4\_incsp\_1 X0 (k7\_domain\_1 (u1\_incsp\_1 X0) X1 X2) X3)))))))) \quad (8)$$

**Theorem 1**

$$\forall X0.(((v15\_incsp\_1 X0)\wedge(l2\_incsp\_1 X0))\Rightarrow(\forall X1.(m1\_subset\_1 X1 (u1\_incsp\_1 X0))\Rightarrow(\forall X2.(m1\_subset\_1 X2 (u1\_incsp\_1 X0))\Rightarrow(\forall X3.(m1\_subset\_1 X3 (u1\_incsp\_1 X0))\Rightarrow((r1\_incsp\_1 X0 X3 (k1\_incsp\_1 X0 X1 X2))\Rightarrow((X1 = X2)\vee(v3\_incsp\_1 (k8\_domain\_1 (u1\_incsp\_1 X0) X1 X2 X3) X0))))))))$$