t23_incsp_1 (TMF9b1vgLJmWnmvCLvV67JpLsnCm6xhHT2U)

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 $u2\_incsp\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_incsp\_1 : \iota \Rightarrow \iota$ be given. Let $r1\_incsp\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u4\_incsp\_1 : \iota \Rightarrow \iota$ be given. Let $r3\_incsp\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v15\_incsp\_1\ X0) \wedge (l2\_incsp\_1\ X0)) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u2\_incsp\_1\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u2\_incsp\_1\ X0)) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (u2\_incsp\_1\ X0)) \Rightarrow (\neg(\forall X4.(m1\_subset\_1\ X4\ (u4\_incsp\_1\ X0)) \Rightarrow (\neg(r3\_incsp\_1\ X0\ X1\ X4) \wedge ((r3\_incsp\_1\ X0\ X2\ X4) \wedge (r3\_incsp\_1\ X0\ X3\ X4)))) \wedge ((\exists X4.(m1\_subset\_1\ X4\ (u1\_incsp\_1\ X0)) \wedge ((r1\_incsp\_1\ X0\ X4\ X1) \wedge ((r1\_incsp\_1\ X0\ X4\ X2) \wedge (r1\_incsp\_1\ X0\ X4\ X3)))) \wedge (X1 = X2)))))) \tag{1}$$

Theorem 1

$$\forall X0.((v15\_incsp\_1\ X0) \wedge (l2\_incsp\_1\ X0)) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u2\_incsp\_1\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u2\_incsp\_1\ X0)) \Rightarrow (\neg(\exists X3.(m1\_subset\_1\ X3\ (u1\_incsp\_1\ X0)) \wedge ((r1\_incsp\_1\ X0\ X3\ X1) \wedge (r1\_incsp\_1\ X0\ X3\ X2))) \wedge (\forall X3.(m1\_subset\_1\ X3\ (u4\_incsp\_1\ X0)) \Rightarrow (\neg(r3\_incsp\_1\ X0\ X1\ X3) \wedge (r3\_incsp\_1\ X0\ X2\ X3))))))$$