

t1_scmfsa_i
(TMG5QTx9aaptVJCtmHm4pKxq9r8vga5GoT)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_scm_inst : \iota$ be given. Let $k2_scmfsa_i : \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k7_card_1 : \iota \Rightarrow \iota$ be given. Let $np_13 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_scm_inst : \iota$ be given. Let $k1_scmfsa_i : \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k11_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_9 : \iota$ be given. Let $np_10 : \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_11 : \iota$ be given. Let $np_12 : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (X2 = k2_xboole_0 X0 X1) \Leftrightarrow (\forall X3. \\ (X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow \\ (X2 \in X1)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} k2_scmfsa_i = k2_xboole_0 (k2_xboole_0 k3_scm_inst (ReplSep4 \\ (toset (\lambda X0 : \iota. m2_subset_1 X0 k4_ordinal1 (k7_card_1 np_13))) \\ (\lambda X0 : \iota. toset (\lambda X1 : \iota. m1_subset_1 X1 k2_scm_inst)) \\ (\lambda X0 : \iota. \lambda X1 : \iota. toset (\lambda X2 : \iota. m1_subset_1 X2 k2_scm_inst)) \\ (\lambda X0 : \iota. \lambda X1 : \iota. \lambda X2 : \iota. toset (\lambda X3 : \iota. m1_subset_1 \\ X3 k1_scmfsa_i)) (\lambda X0 : \iota. \lambda X1 : \iota. \lambda X2 : \iota. \lambda X3 : \\ \iota. X0 \in k2_tarski np_9 np_10) (\lambda X0 : \iota. \lambda X1 : \iota. \lambda X2 : \\ \iota. \lambda X3 : \iota. k3_xtuple_0 X0 k1_xboole_0 (k11_finseq_1 X1 X3 \\ X2)))) (ReplSep3 (toset (\lambda X0 : \iota. m2_subset_1 X0 k4_ordinal1 \\ (k7_card_1 np_13))) (\lambda X0 : \iota. toset (\lambda X1 : \iota. m1_subset_1 \\ X1 k2_scm_inst)) (\lambda X0 : \iota. \lambda X1 : \iota. toset (\lambda X2 : \iota. \\ m1_subset_1 X2 k1_scmfsa_i)) (\lambda X0 : \iota. \lambda X1 : \iota. \lambda X2 : \\ \iota. X0 \in k2_tarski np_11 np_12) (\lambda X0 : \iota. \lambda X1 : \iota. \lambda X2 : \\ \iota. k3_xtuple_0 X0 k1_xboole_0 (k10_finseq_1 X1 X2)))) \end{aligned} \quad (3)$$

Theorem 1 $r1_tarski k3_scm_inst k2_scmfsa_i$.