

t6_scm_inst
(TMVaFsCdAQWmf9txfMGePtFbmjty9gQYuzs)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_scm_inst : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k7_card_1 : \iota \Rightarrow \iota$ be given. Let $np_9 : \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k6_scm_inst : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k5_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (k7_partfun1 X0 (k12_finseq_1 X0 X1) np_1 = X1)) \quad (1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k5_xtuple_0 (k3_xtuple_0 X0 X1 X2) = X1 \quad (3)$$

Assume the following.

$$\neg v1_finset_1 k4_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow (m2_finseq_1 (k12_finseq_1 X0 X1) X0) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k3_scm_inst) \Rightarrow ((\exists X1.(m1_subset_1 X1 k5_numbers) \wedge (\exists X2.(m1_subset_1 X2 (k7_card_1 np_9)) \wedge \\ & (X0 = k3_xtuple_0 X2 (k12_finseq_1 k5_numbers X1) k1_xboole_0))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 k5_numbers) \Rightarrow ((X1 = k6_scm_inst X0) \Leftrightarrow \\ & (\exists X2.(m2_finseq_1 X2 k5_numbers) \wedge ((X2 = k5_xtuple_0 X0) \wedge \\ & (X1 = k7_partfun1 k5_numbers X2 np_1)))))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (v1_finset_1 X0) \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k3_scm_inst) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k5_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 (k7_card_1 np_9)) \Rightarrow \\ & ((X0 = k3_xtuple_0 X2 (k12_finseq_1 k5_numbers X1) k1_xboole_0) \Rightarrow \\ & (k6_scm_inst X0 = X1)))) \end{aligned}$$