

l23_scm_inst
(TMUitvBqL1wkXoi1Nke425hnuvMcD6fqRt6)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_compos_0 : \iota \Rightarrow \iota$ be given. Let $k3_scm_inst : \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_3 : \iota$ be given. Let $np_4 : \iota$ be given. Let $np_5 : \iota$ be given. Let $k3_compos_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_compos_0 : \iota \Rightarrow o$ be given. Let $k2_compos_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_scm_inst : \iota$ be given. Let $k5_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v2_compos_0 : \iota \Rightarrow o$ be given. Let $v4_funct_1 : \iota \Rightarrow o$ be given. Assume the following.

$$np_1 = k1_tarski\ k1_xboole_0 \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. ((\neg v1_xboole_0\ X0) \wedge (v1_compos_0\ X0)) \Rightarrow (\forall X1. \\ (m1_subset_1\ X1\ (k1_compos_0\ X0)) \Rightarrow (\exists X2. (m1_subset_1\ X2 \\ X0) \wedge (k2_compos_0\ X0\ X2 = X1))) \end{aligned} \quad (2)$$

Assume the following.

$$k1_scm_inst = k1_xboole_0 \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0\ X0) \Rightarrow (\neg (X0 \neq k1_tarski\ k1_xboole_0) \wedge \\ ((k1_xboole_0 \in X0) \wedge (\forall X1. \neg (X1 \in X0) \wedge (X1 \neq k1_xboole_0)))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_subset_1\ X0\ k3_scm_inst) \Rightarrow ((\neg (k2_compos_0\ k3_scm_inst \\ X0 \neq np_1) \wedge ((k2_compos_0\ k3_scm_inst\ X0 \neq np_2) \wedge ((k2_compos_0 \\ k3_scm_inst\ X0 \neq np_3) \wedge ((k2_compos_0\ k3_scm_inst\ X0 \neq np_4) \wedge \\ (k2_compos_0\ k3_scm_inst\ X0 \neq np_5)))))) \Rightarrow (k5_xtuple_0\ X0 = k1_xboole_0)) \end{aligned} \quad (5)$$

Assume the following.

$$(\neg v1_xboole_0\ k3_scm_inst) \wedge (v2_compos_0\ k3_scm_inst) \quad (6)$$

Assume the following.

$$(\neg v1_xboole_0 \ k3_scm_inst) \wedge (v1_compos_0 \ k3_scm_inst) \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((\neg v1_xboole_0 \ X0) \wedge (v1_compos_0 \ X0)) \wedge \\ & (m1_subset_1 \ X1 \ (k1_compos_0 \ X0))) \Rightarrow ((\neg v1_xboole_0 \ (k3_compos_0 \\ & \ X0 \ X1)) \wedge (v4_funct_1 \ (k3_compos_0 \ X0 \ X1))) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v1_xboole_0 \ X0) \wedge (v1_compos_0 \ X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 \ X1 \ (k1_compos_0 \ X0)) \Rightarrow (k3_compos_0 \ X0 \ X1 = \text{ReplSep} \\ & (\text{toset} \ (\lambda X2 : \iota. m1_subset_1 \ X2 \ X0)) \ (\lambda X2 : \iota. k2_compos_0 \\ & \ X0 \ X2 = X1) \ (\lambda X2 : \iota. k5_xtuple_0 \ X2))) \end{aligned} \quad (9)$$

Assume the following.

$$k1_xboole_0 = \text{the} \ (\lambda X0 : \iota. v1_xboole_0 \ X0) \quad (10)$$

Theorem 1

$$\begin{aligned} & \forall X0. (m1_subset_1 \ X0 \ (k1_compos_0 \ k3_scm_inst)) \Rightarrow ((\neg (X0 \neq \\ & np_1)) \wedge ((X0 \neq np_2) \wedge ((X0 \neq np_3) \wedge ((X0 \neq np_4) \wedge (X0 \neq np_5)))))) \Rightarrow \\ & (k3_compos_0 \ k3_scm_inst \ X0 = k1_tarSKI \ k1_xboole_0) \end{aligned}$$