

t4_scmring2 (TMcLxMmfsDMCEb- JuTbs5R5vA5LQHd4NB3xY)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $v4_vectsp_1 : \iota \Rightarrow o$ be given. Let $v5_vectsp_1 : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $v1_ami_2 : \iota \Rightarrow o$ be given. Let $k1_scmring2 : \iota \Rightarrow \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_5 : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_scmringi : \iota \Rightarrow \iota$ be given. Let $k2_scm_inst : \iota$ be given. Let $k7_scmringi : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k2_ami_2 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 \\ & k2_scm_inst) \Rightarrow (k3_xtuple_0 np_5 k1_xboole_0 (k7_scmringi X0 \\ & X2 X1) \in k1_scmringi X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (((\neg v2_struct_0 X0) \wedge (l1_struct_0 \\ & X0)) \wedge ((m1_subset_1 X1 k2_scm_inst) \wedge (m1_subset_1 X2 (u1_struct_0 \\ & X0)))) \Rightarrow (k7_scmringi X0 X1 X2 = k10_finseq_1 X1 X2) \end{aligned} \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$k2_ami_2 = k2_scm_inst \quad (5)$$

Assume the following.

$$\forall X0. (v1_ami_2 X0) \Leftrightarrow (X0 \in k2_ami_2) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.((\neg v2_struct_0 \\ & X2) \wedge ((v13_algstr_0 X2) \wedge ((v2_rlvect_1 X2) \wedge ((v3_rlvect_1 X2) \wedge \\ & ((v4_rlvect_1 X2) \wedge ((v3_group_1 X2) \wedge ((v4_vectsp_1 X2) \wedge ((v5_vectsp_1 \\ & X2) \wedge (l6_algstr_0 X2)))))))))) \Rightarrow (\forall X3.((v1_ami_2 X3) \wedge (m1_subset_1 \\ & X3 (u1_struct_0 (k1_scmring2 X2))) \Rightarrow (k3_xtuple_0 np_5 k1_xboole_0 \\ & (k10_finseq_1 X3 X1) \in k1_scmringi X0)))) \end{aligned}$$