

l66_o_ring_1

(TMZbn3bP1MB3jDaMN3Sy7qdvCH6MkA2Qx5u)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v12_o_ring_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_o_ring_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v9_o_ring_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow (\forall X1. \\
& (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. (m2_finseq_1 X2 \\
& (u1_struct_0 X0)) \Rightarrow (((v12_o_ring_1 X2 X0) \wedge (v9_o_ring_1 X1 X0)) \Rightarrow \\
& (v12_o_ring_1 (k8_finseq_1 (u1_struct_0 X0) (k8_finseq_1 (u1_struct_0 \\
& X0) X2 (k12_finseq_1 (u1_struct_0 X0) X1)) (k12_finseq_1 (u1_struct_0 \\
& X0) (k1_algstr_0 X0 (k7_partfun1 (u1_struct_0 X0) X2 (k3_finseq_1 \\
& X2)) X1))) X0))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow (\forall X1. \\
& (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow ((v5_o_ring_1 X1 X0) \Rightarrow (v9_o_ring_1 \\
& X1 X0)))
\end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow (\forall X1. \\
& (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. (m2_finseq_1 X2 \\
& (u1_struct_0 X0)) \Rightarrow (((v12_o_ring_1 X2 X0) \wedge (v5_o_ring_1 X1 X0)) \Rightarrow \\
& (v12_o_ring_1 (k8_finseq_1 (u1_struct_0 X0) (k8_finseq_1 (u1_struct_0 \\
& X0) X2 (k12_finseq_1 (u1_struct_0 X0) X1)) (k12_finseq_1 (u1_struct_0 \\
& X0) (k1_algstr_0 X0 (k7_partfun1 (u1_struct_0 X0) X2 (k3_finseq_1 \\
& X2)) X1))) X0))))
\end{aligned}$$