

l35_o_ring_1

(TMaE7ECmH6cMFTDa3CNiqn1sUUUsedJqUSow)

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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 $v3_o_ring_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v11_o_ring_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_o_ring_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v10_o_ring_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m2_finseq_1 X1 (u1_struct_0 X0)) \Rightarrow ((v2_o_ring_1 X1 X0) \Rightarrow (v10_o_ring_1 \\ & \quad X1 X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow ((v3_o_ring_1 X1 X0) \Leftrightarrow (\exists X2. \\ & (m2_finseq_1 X2 (u1_struct_0 X0)) \wedge ((v2_o_ring_1 X2 X0) \wedge (X1 = k7_partfun1 \\ & \quad (u1_struct_0 X0) X2 (k3_finseq_1 X2)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow ((v11_o_ring_1 X1 X0) \Leftrightarrow (\exists X2. \\ & (m2_finseq_1 X2 (u1_struct_0 X0)) \wedge ((v10_o_ring_1 X2 X0) \wedge (X1 = \\ & \quad k7_partfun1 (u1_struct_0 X0) X2 (k3_finseq_1 X2)))))) \end{aligned} \tag{3}$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow ((v3_o_ring_1 X1 X0) \Rightarrow (v11_o_ring_1 \\ & \quad X1 X0))) \end{aligned}$$