

l68_o_ring_1 (TMHpqbb- HXQXHKkNEa64iE4Uyku5zruehyNQ)

October 27, 2020

Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v6_o_ring_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v13_o_ring_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v10_o_ring_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m2_finseq_1 X1 (u1_struct_0 X0)) \Rightarrow ((v10_o_ring_1 X1 X0) \Rightarrow (\forall X2. \\ & (v7_ordinal1 X2) \Rightarrow ((r1_xxreal_0 X2 (k3_finseq_1 X1)) \Rightarrow ((X2 = k6_numbers) \vee \\ & (v13_o_ring_1 (k7_partfun1 (u1_struct_0 X0) X1 X2) X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m2_finseq_1 X1 (u1_struct_0 X0)) \Rightarrow ((v6_o_ring_1 X1 X0) \Rightarrow (v10_o_ring_1 \\ & X1 X0))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge \\ & (l6_algstr_0 X1)) \Rightarrow (\forall X2.(m2_finseq_1 X2 (u1_struct_0 X1)) \Rightarrow \\ & (((v6_o_ring_1 X2 X1) \wedge (r1_xxreal_0 X0 (k3_finseq_1 X2))) \Rightarrow ((k6_numbers = \\ & X0) \vee (v13_o_ring_1 (k7_partfun1 (u1_struct_0 X1) X2 X0) X1)))))) \end{aligned}$$