

l28_sppol_1

(TMUFAyaEX97pRXigJfzQsmcE6UZkSAycCrV)

October 27, 2020

Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k2_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m2_finseq_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (v1_finset_1 (ReplSep (toset (\lambda X1 : \iota. m2_subset_1 X1 k1_numbers \\ & k5_numbers)) (\lambda X1 : \iota. (r1_xxreal_0 np_1 X1) \wedge (r1_xxreal_0 \\ & (k2_nat_1 X1 np_1) (k3_finseq_1 X0)))) (\lambda X1 : \iota. k2_topreal1 \\ & np_2 X0 X1))) \quad (2) \end{aligned}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (4)$$

Assume the following.

$$\forall X0. (v1_finset_1 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (v1_finset_1 X1)) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_finseq_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (\forall X1.(m2_subset_1 X1 k1_numbers k5_numbers) \Rightarrow (v1_finset_1 \\ & (ReplSep (toset (\lambda X2 : \iota.m2_subset_1 X2 k1_numbers k5_numbers)) \\ & (\lambda X2 : \iota.(r1_xxreal_0 np_1 X2) \wedge ((r1_xxreal_0 (k2_nat_1 \\ & X2 np_1) (k3_finseq_1 X0)) \wedge ((X2 \neq X1) \wedge (X2 \neq k2_nat_1 X1 np_1)))) \\ & (\lambda X2 : \iota.k2_topreal1 np_2 X0 X2)))) \end{aligned}$$