

t4_hallmar1
(TMHQf9hbFjdimzKuk5Y77JUMjJXifnt328i)

October 27, 2020

Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_hallmar1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m2_finseq_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (\forall X2. \\ & \forall X3. (X3 = k1_hallmar1 X0 X1 X2) \Leftrightarrow (\forall X4. (X4 \in X3) \Leftrightarrow (\exists X5. \\ & (X5 \in X2) \wedge ((X5 \in k4_finseq_1 X1) \wedge (X4 \in k1_funct_1 X1 X5)))))) \quad (2) \end{aligned}$$

Theorem 1

$$\begin{aligned} & \forall X0. (v1_finset_1 X0) \Rightarrow (\forall X1. (m2_finseq_1 X1 (k1_zfmisc_1 \\ & X0)) \Rightarrow (\forall X2. \forall X3. (r1_tarski X2 X3) \Rightarrow (r1_tarski (k1_hallmar1 \\ & X0 X1 X2) (k1_hallmar1 X0 X1 X3)))) \end{aligned}$$