

t3_hilbert2

(TMEgmvbxFPfjzGExB8bdXkgrdeTEJvzRco7)

October 27, 2020

Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k5_funct_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k13_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. k5_funct_7 k1_xboole_0 X0 = k9_finseq_1 X0 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (k9_finseq_1 X0 \in k3_finseq_2 X1) \Leftrightarrow (X0 \in X1) \quad (2)$$

Assume the following.

$$\forall X0. k3_finseq_2 X0 = k13_finseq_1 X0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k13_finseq_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (m2_finseq_1 X2 X0)) \quad (4)$$

Theorem 1 $\forall X0. \forall X1. (m2_finseq_1 (k9_finseq_1 X0) X1) \Rightarrow (X0 \in X1).$