

l71_hilbert1
(TMQB81L5WDyzHe5nPz2dvcRHaiJiA7J6sYj)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_hilbert1 : \iota$ be given. Let $k3_hilbert1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_hilbert1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_hilbert1 : \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k1_hilbert1) \Rightarrow (\forall X1. (m1_subset_1 X1 k1_hilbert1) \Rightarrow (k3_hilbert1 (k4_hilbert1 X0 X1) (k4_hilbert1 X1 X0) \in k6_hilbert1)) \quad (2)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k1_hilbert1) \Rightarrow (\forall X1. (m1_subset_1 X1 k1_hilbert1) \Rightarrow (\forall X2. (m1_subset_1 X2 k1_hilbert1) \Rightarrow (k3_hilbert1 (k3_hilbert1 X0 X1) (k3_hilbert1 (k4_hilbert1 X0 X2) (k4_hilbert1 X1 X2)) \in k6_hilbert1))) \quad (3)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k1_hilbert1) \Rightarrow (\forall X1. (m1_subset_1 X1 k1_hilbert1) \Rightarrow (\forall X2. (m1_subset_1 X2 k1_hilbert1) \Rightarrow ((k3_hilbert1 X0 (k3_hilbert1 X1 X2) \in k6_hilbert1) \wedge (X1 \in k6_hilbert1)) \Rightarrow (k3_hilbert1 X0 X2 \in k6_hilbert1)))) \quad (4)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k1_hilbert1) \Rightarrow (\forall X1. (m1_subset_1 X1 k1_hilbert1) \Rightarrow (\forall X2. (m1_subset_1 X2 k1_hilbert1) \Rightarrow ((k3_hilbert1 X0 (k3_hilbert1 X1 X2) \in k6_hilbert1) \Rightarrow (k3_hilbert1 X1 (k3_hilbert1 X0 X2) \in k6_hilbert1)))) \quad (5)$$

Assume the following.

$$m1_subset_1 k6_hilbert1 (k1_zfmisc_1 k1_hilbert1) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_hilbert1)\wedge(m1_subset_1 X1 k1_hilbert1))\Rightarrow(m1_subset_1 (k4_hilbert1 X0 X1) k1_hilbert1) \quad (7)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k1_hilbert1)\Rightarrow(\forall X1.(m1_subset_1 X1 k1_hilbert1)\Rightarrow(\forall X2.(m1_subset_1 X2 k1_hilbert1)\Rightarrow(k3_hilbert1 (k4_hilbert1 (k4_hilbert1 X0 X1) X2) (k4_hilbert1 (k4_hilbert1 X1 X0) X2) \in k6_hilbert1)))$$