

l79_hilbert1

(TMKQVrbsqhqtVkJQ7fZRqoqUDsX3oY1jKC5L)

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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. Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_hilbert1) \Rightarrow (\forall X1.(m1_subset_1 X1 k1_hilbert1) \Rightarrow (k3_hilbert1 (k4_hilbert1 X0 X1) (k4_hilbert1 X1 X0) \in k6_hilbert1)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_hilbert1) \wedge (m1_subset_1 X1 k1_hilbert1)) \Rightarrow (m1_subset_1 (k4_hilbert1 X0 X1) k1_hilbert1) \quad (2)$$

Theorem 1

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