

t18_hilbert1 (TMZYuU- uxpj9Pr4p3UgHbELpdkrW4gwqyuyG)

October 27, 2020

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 $k6_hilbert1 : \iota$ be given. Assume the following.

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

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_hilbert1) \wedge (m1_subset_1 X1 k1_hilbert1)) \Rightarrow (m1_subset_1 (k3_hilbert1 X0 X1) k1_hilbert1) \quad (3)$$

Theorem 1

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