

t7_cantor_1

(TMG88bkYaW44bZgaA3597hdG6UcDZhFDBqv)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $k1_cantor_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_cantor_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. ((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (u1_pre_topc X0 = k1_cantor_1 (u1_struct_0 X0) (u1_pre_topc X0)) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow (u1_pre_topc X0 = k2_cantor_1 (u1_struct_0 X0) (u1_pre_topc X0)) \quad (2)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow (u1_pre_topc X0 = k1_cantor_1 (u1_struct_0 X0) (k2_cantor_1 (u1_struct_0 X0) (u1_pre_topc X0)))$$