

t2_ospace
(TMMC29iYfnqcQPZcvaQtLhStTHixegASLGH)

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Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $r1_struct_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ (\forall X1.(\forall X2.(v7_ordinal1 X2) \Rightarrow ((X2 \in k4_finseq_1 X0) \Rightarrow \\ (k1_funct_1 X0 X2 \in X1))) \Rightarrow (m2_finseq_1 X0 X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(l1_struct_0 X0) \Rightarrow (\forall X1.(r1_struct_0 X0 X1) \Leftrightarrow (X1 \in u1_struct_0 X0)) \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0.(l1_struct_0 X0) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge ((\\ v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \Rightarrow ((\forall X2.(v7_ordinal1 \\ X2) \Rightarrow ((X2 \in k4_finseq_1 X1) \Rightarrow (r1_struct_0 X0 (k1_funct_1 X1 X2)))) \Rightarrow \\ (m2_finseq_1 X1 (u1_struct_0 X0)))) \end{aligned}$$