

t140_finseq_2
 (TMXgfQjfJFhPH8iSUPGHxmbYDorEEegtqrvk)

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Let $k11_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & (k11_finseq_1 X0 X1 X2 = k11_finseq_1 X3 X4 X5) \Rightarrow ((X0 = X3) \wedge ((X1 = X4) \wedge \\ & \quad (X2 = X5))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (X1 \in k4_finseq_2 np_3 X0) \Leftrightarrow (\exists X2. \\ & \exists X3. \exists X4. (X2 \in X0) \wedge ((X3 \in X0) \wedge ((X4 \in X0) \wedge (X1 = k11_finseq_1 \\ & \quad X2 X3 X4)))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (k11_finseq_1 X1 \\ & X2 X3 \in k4_finseq_2 np_3 X0) \Rightarrow ((X1 \in X0) \wedge ((X2 \in X0) \wedge (X3 \in X0))) \end{aligned}$$