t136_finseq_2 (TMUbLKS-Bpc4gnv7PU1mVMEPbXNvg1cuy7u7)

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Let $k9\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(k9\_finseq\_1\ X0 = k9\_finseq\_1\ X1) \Rightarrow (X0 = X1) \tag{1}$$

Assume the following.

$$\begin{gathered}\forall X0.\forall X1.(X1 \in k4\_finseq\_2\ np\_\_1\ X0) \Leftrightarrow (\exists X2. \\ (X2 \in X0) \wedge (X1 = k9\_finseq\_1\ X2))\end{gathered} \tag{2}$$

Theorem 1

$$\begin{gathered}\forall X0.\forall X1.(k9\_finseq\_1\ X1 \in k4\_finseq\_2\ np\_\_1\ X0) \Rightarrow \\ (X1 \in X0)\end{gathered}$$