

t104_finseq_2 (TML-
sLq7DThw9GfXVuQnirGy9iaTQx9xYYGc)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. 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.

$$\begin{aligned}
 \forall X0. (\neg v1_xboole_0 X0) \Rightarrow & (k4_finseq_2 np_3 X0 = ReplSep3 \\
 & (toset (\lambda X1 : \iota. m1_subset_1 X1 X0)) (\lambda X1 : \iota. toset (\lambda X2 : \\
 & \iota. m1_subset_1 X2 X0)) (\lambda X1 : \iota. \lambda X2 : \iota. toset (\lambda X3 : \\
 & \iota. m1_subset_1 X3 X0)) (\lambda X1 : \iota. \lambda X2 : \iota. \lambda X3 : \iota. \\
 & True) (\lambda X1 : \iota. \lambda X2 : \iota. \lambda X3 : \iota. k11_finseq_1 X1 X2 \\
 & X3))
 \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
 \forall X0. (\neg v1_xboole_0 X0) \Rightarrow & (\forall X1. (m1_subset_1 X1 X0) \Rightarrow \\
 (\forall X2. (m1_subset_1 X2 X0) \Rightarrow & (\forall X3. (m1_subset_1 X3 X0) \Rightarrow \\
 (k11_finseq_1 X1 X2 X3 \in & k4_finseq_2 np_3 X0))))
 \end{aligned}$$