

t17_ens_1

(TMdYRc36mR4WDeWzk9HmSDiAnrgsRg3YPd3)

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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 $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_ens_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_ens_1 : \iota \Rightarrow \iota$ be given. Let $k1_ens_1 : \iota \Rightarrow \iota$ be given. Let $k1_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 X0) \Rightarrow \\
 & (\forall X2. (m1_subset_1 X2 X0) \Rightarrow (k7_ens_1 X0 X1 X2 = ReplSep (toset \\
 & (\lambda X3 : \iota. m1_subset_1 X3 (k1_ens_1 X0)))) (\lambda X3 : \iota. k1_domain_1 \\
 & (k2_zfmisc_1 X0 X0) (k1_ens_1 X0) (k1_domain_1 X0 X0 X1 X2) X3 \in k2_ens_1 \\
 & X0) (\lambda X3 : \iota. k1_domain_1 (k2_zfmisc_1 X0 X0) (k1_ens_1 X0) \\
 & (k1_domain_1 X0 X0 X1 X2) X3))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \tag{2}$$

Theorem 1

$$\begin{aligned}
 & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 X0) \Rightarrow \\
 & (\forall X2. (m1_subset_1 X2 X0) \Rightarrow (r1_tarski (k7_ens_1 X0 X1 X2) \\
 & (k2_ens_1 X0))))
 \end{aligned}$$