

t31_normform
(TMFSNpZgja4SxwnrC7LzzoHsQNd2fpGxVKm)

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Let $k1_xboole_0 : \iota$ be given. Let $k8_normform : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_finsub_1 : \iota \Rightarrow \iota$ be given. Let $k7_normform : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_normform : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. k1_xboole_0 \in ReplSep (toset (\lambda X1 : \iota. m1_subset_1 \\
& \quad X1 (k5_finsub_1 (k7_normform X0)))) (\lambda X1 : \iota. \forall X2. (\\
& \quad m2_subset_1 X2 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) \\
& \quad (k7_normform X0)) \Rightarrow (\forall X3. (m2_subset_1 X3 (k2_zfmisc_1 (\\
& \quad k5_finsub_1 X0) (k5_finsub_1 X0)) (k7_normform X0)) \Rightarrow (((X2 \in X1) \wedge \\
& \quad ((X3 \in X1) \wedge (r1_normform (k5_finsub_1 X0) (k5_finsub_1 X0) X2 X3))) \Rightarrow \\
& \quad (X2 = X3)))) (\lambda X1 : \iota. X1)
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0. k8_normform X0 = ReplSep (toset (\lambda X1 : \iota. m1_subset_1 \\
& \quad X1 (k5_finsub_1 (k7_normform X0)))) (\lambda X1 : \iota. \forall X2. (\\
& \quad m2_subset_1 X2 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) \\
& \quad (k7_normform X0)) \Rightarrow (\forall X3. (m2_subset_1 X3 (k2_zfmisc_1 (\\
& \quad k5_finsub_1 X0) (k5_finsub_1 X0)) (k7_normform X0)) \Rightarrow (((X2 \in X1) \wedge \\
& \quad ((X3 \in X1) \wedge (r1_normform (k5_finsub_1 X0) (k5_finsub_1 X0) X2 X3))) \Rightarrow \\
& \quad (X2 = X3)))) (\lambda X1 : \iota. X1)
\end{aligned} \tag{2}$$

Theorem 1 $\forall X0. k1_xboole_0 \in k8_normform X0.$