

t32_normform

(TMW6AnoYiSWhNkmR2VPRUYVq938aZd45X2B)

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

$$\begin{aligned}
 \forall X0. k8_normform\ X0 = & \text{ReplSep } (\text{toset } (\lambda X1 : \iota. m1_subset_1 \\
 & X1\ (k5_finsub_1\ (k7_normform\ X0))))\ (\lambda X1 : \iota. \forall X2. (\\
 m2_subset_1\ X2\ (k2_zfmisc_1\ (k5_finsub_1\ X0)\ (k5_finsub_1\ X0)) \\
 (k7_normform\ X0)) \Rightarrow & (\forall X3. (m2_subset_1\ X3\ (k2_zfmisc_1\ (\\
 k5_finsub_1\ X0)\ (k5_finsub_1\ X0))\ (k7_normform\ X0)) \Rightarrow & (((X2 \in X1) \wedge \\
 ((X3 \in X1) \wedge (r1_normform\ (k5_finsub_1\ X0)\ (k5_finsub_1\ X0)\ X2\ X3))) \Rightarrow & \\
 (X2 = X3)))\ (\lambda X1 : \iota. X1) & \\
 & (1)
 \end{aligned}$$

Theorem 1

$$\begin{aligned}
 \forall X0. \forall X1. (m2_subset_1\ X1\ (k2_zfmisc_1\ (k5_finsub_1 \\
 X0)\ (k5_finsub_1\ X0))\ (k7_normform\ X0)) \Rightarrow & (\forall X2. (m2_subset_1 \\
 X2\ (k2_zfmisc_1\ (k5_finsub_1\ X0)\ (k5_finsub_1\ X0))\ (k7_normform \\
 X0)) \Rightarrow & (\forall X3. (m1_subset_1\ X3\ (k5_finsub_1\ (k7_normform\ X0))) \Rightarrow \\
 (((X3 \in k8_normform\ X0) \wedge ((X1 \in X3) \wedge ((X2 \in X3) \wedge (r1_normform\ (k5_finsub_1 \\
 X0)\ (k5_finsub_1\ X0)\ X1\ X2)))) \Rightarrow & (X1 = X2))))
 \end{aligned}$$