

t7_zf_colla
(TMXf7LbdZtTFQEYWDMgsmn6Mq6nU1jnx12k)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zf_colla : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (v3_ordinal1 X1) \Rightarrow (\\ k1_zf_colla X0 X1 = ReplSep (toset (\lambda X2 : \iota. m1_subset_1 X2 X0)) \\ (\lambda X2 : \iota. \forall X3. (m1_subset_1 X3 X0) \Rightarrow (\neg (X3 \in X2) \wedge (\forall X4. \\ (v3_ordinal1 X4) \Rightarrow (\neg (X4 \in X1) \wedge (X3 \in k1_zf_colla X0 X4)))))) (\lambda X2 : \\ \iota. X2))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarSKI X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \Rightarrow ((m1_subset_1 X1 X0) \Leftrightarrow \\ (X1 \in X0))) \wedge ((v1_xboole_0 X0) \Rightarrow ((m1_subset_1 X1 X0) \Leftrightarrow (v1_xboole_0 \\ X1))) \end{aligned} \tag{3}$$

Theorem 1

$$\forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (v3_ordinal1 X1) \Rightarrow (r1_tarSKI (k1_zf_colla X0 X1) X0))$$