

t51_mmlquery

(TMTXg1u54jZvEeYvpRtKATqSBLnBZq9P43H)

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Let $v1_mmlquery : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k20_mmlquery : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18_mmlquery : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))) \Rightarrow (k1_relset_1 X0 (k20_mmlquery X0 X1 (k18_mmlquery X0 X1))) = X0 \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))) \Rightarrow ((v1_mmlquery X1 X0) \Leftrightarrow (X1 = k4_relat_1 (k1_relset_1 X0 X1))) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))) \Rightarrow (k20_mmlquery X0 X1 X2 = k2_xboole_0 X1 X2) \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (((v1_mmlquery X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))) \wedge ((v1_mmlquery X2 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))) \Rightarrow (v1_mmlquery (k2_xboole_0 X1 X2) X0) \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))) \Rightarrow (v1_mmlquery (k18_mmlquery X0 X1) X0) \tag{5}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.((m1_subset_1 X1 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X0)))\wedge(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 X0))))\Rightarrow(m1_subset_1 (k20_mmlquery X0 X1 X2) (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 X0))) \end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 X0)))\Rightarrow(m1_subset_1 (k18_mmlquery X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 X0))) \end{aligned} \tag{7}$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.((v1_mmlquery X1 X0)\wedge(m1_subset_1 X1 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X0))))\Rightarrow(k20_mmlquery X0 X1 (k18_mmlquery X0 X1) = \\ & k4_relat_1 X0) \end{aligned}$$