

# t2\_mmlquery

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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  $r1\_mmlquery : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_mmlquery : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k4\_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k9\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1\_relat\_1 X2) \Rightarrow ((k4\_tarSKI X0 X1 \in X2) \Leftrightarrow (X1 \in k9\_relat\_1 X2 X0)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0))) \wedge (m1\_subset\_1 X2 X0)) \Rightarrow (k1\_mmlquery X0 X1 X2 = k9\_relat\_1 X1 X2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (r1\_mmlquery X0 X1 X2) \Leftrightarrow (k4\_tarSKI X0 X1 \in X2) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1))) \Rightarrow (v1\_relat\_1 X2) \quad (4)$$

## Theorem 1

$$\forall X0. \forall X1. (m1\_subset\_1 X1 X0) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0))) \Rightarrow (\forall X3. (m1\_subset\_1 X3 X0) \Rightarrow ((r1\_mmlquery X1 X3 X2) \Leftrightarrow (X3 \in k1\_mmlquery X0 X2 X1))))$$