

t2_recdef_2

(TMRPb4hoXaVhjRF2fdaSuCQXS mcsn8jG9y5)

October 27, 2020

Let $k3_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k5_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (X0 \in k2_zfmisc_1 X1 X2) \Rightarrow ((k1_xtuple_0 X0 \in X1) \wedge (k2_xtuple_0 X0 \in X2)) \quad (1)$$

Assume the following.

$$\forall X0. k5_xtuple_0 X0 = k2_xtuple_0 (k1_xtuple_0 X0) \quad (2)$$

Assume the following.

$$\forall X0. k4_xtuple_0 X0 = k1_xtuple_0 (k1_xtuple_0 X0) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k3_zfmisc_1 X0 X1 X2 = k2_zfmisc_1 (k2_zfmisc_1 X0 X1) X2 \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \forall X3. (X0 \in k3_zfmisc_1 X1 X2 X3) \Rightarrow ((k4_xtuple_0 X0 \in X1) \wedge ((k5_xtuple_0 X0 \in X2) \wedge (k2_xtuple_0 X0 \in X3)))$$