

t6_yellow_2 (TMdubR- moXFQr8Go1GyrEdqPXvBPLpxy9hBV)

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Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v4_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_rset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k2_wellord1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k1_toler_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.\forall X2.(r1_tarski \\ X1 X2) \Rightarrow (r1_tarski (k2_wellord1 X0 X1) (k2_wellord1 X0 X2))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.\forall X3.(m1_subset_1 X2 (\\ k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow ((r1_rset_1 X0 X1 X2 X3) \Leftrightarrow (\\ r1_tarski X2 X3)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(v1_relat_1 X0) \Rightarrow (k1_toler_1 X0 X1 = k2_wellord1 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (m1_subset_1 (u1_orders_2 X0) (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0)))) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(v1_relat_1 X0) \Rightarrow (m1_subset_1 (k1_toler_1 X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 X1 X1))) \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(m1_yellow_0 X1 X0) \Rightarrow \\ ((v4_yellow_0 X1 X0) \Leftrightarrow (u1_orders_2 X1 = k1_toler_1 (u1_orders_2 X0) (u1_struct_0 X1)))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \quad (7)$$

Theorem 1

$$\begin{aligned} \forall X0.(l1_orders_2 X0)\Rightarrow(\forall X1.((v4_yellow_0 X1 X0)\wedge \\ (m1_yellow_0 X1 X0))\Rightarrow(\forall X2.((v4_yellow_0 X2 X0)\wedge(m1_yellow_0 \\ X2 X0))\Rightarrow((r1_tarski (u1_struct_0 X1) (u1_struct_0 X2))\Rightarrow(r1_relset_1 \\ (u1_struct_0 X1) (u1_struct_0 X1) (u1_orders_2 X1) (u1_orders_2 \\ X2)))))) \end{aligned}$$