t9_taxonom2 (TMUbuB9VV7pRp9ucycDYncsMWfPu1AMPXQU)

October 27, 2020

Let $v4\_taxonom2 : \iota \Rightarrow o$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $r1\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.((X0 \in k1\_tarski\ k1\_xboole\_0) \wedge (X1 \in k1\_tarski\ k1\_xboole\_0)) \Rightarrow ((X0 = X1) \vee (r1\_xboole\_0\ X0\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.(v4\_taxonom2\ X0) \Leftrightarrow (\forall X1.\forall X2.((X1 \in X0) \wedge (X2 \in X0)) \Rightarrow ((X1 = X2) \vee (r1\_xboole\_0\ X1\ X2))) \tag{2}$$

Theorem 1 $v4\_taxonom2\ (k1\_tarski\ k1\_xboole\_0)$.