t6_wellord1 (TMN-JaWAS74Zp3MhdvXy1kw59hLkLwVnojQJ)

October 27, 2020

Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v2\_wellord1 : \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_relat\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2\_wellord1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(v1\_relat\_1\ X1) \Rightarrow ((r2\_wellord1\ X1\ X0) \Rightarrow (\forall X2.\neg(r1\_tarski\ X2\ X0) \wedge ((X2 \neq k1\_xboole\_0) \wedge (\forall X3. \neg(X3 \in X2) \wedge (\forall X4.(X4 \in X2) \Rightarrow (k4\_tarski\ X3\ X4 \in X1)))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow ((r2\_wellord1\ X0\ (k1\_relat\_1\ X0)) \Leftrightarrow (v2\_wellord1\ X0)) \tag{2}$$

Theorem 1

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow ((v2\_wellord1\ X0) \Rightarrow (\forall X1.\neg(r1\_tarski\ X1\ (k1\_relat\_1\ X0)) \wedge ((X1 \neq k1\_xboole\_0) \wedge (\forall X2. \neg(X2 \in X1) \wedge (\forall X3.(X3 \in X1) \Rightarrow (k4\_tarski\ X2\ X3 \in X0))))))$$