t2_ens_1 (TMG6eHvgfevyUEPuxHZJST2zohBt2Jyxp9p)

October 27, 2020

Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_ens\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (r1\_tarski\ X0\ (k3\_tarski\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (k1\_ens\_1\ X0 = k3\_tarski\ (ReplSep2\ (toset\ (\lambda X1 : \iota.m1\_subset\_1\ X1\ X0))\ (\lambda X1 : \iota.toset\ (\lambda X2 : \iota.m1\_subset\_1\ X2\ X0))\ (\lambda X1 : \iota.\lambda X2 : \iota.True)\ (\lambda X1 : \iota.\lambda X2 : \iota.k1\_funct\_2\ X1\ X2))) \tag{2}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ X0) \Rightarrow (r1\_tarski\ (k1\_funct\_2\ X1\ X2)\ (k1\_ens\_1\ X0))))$$