t4_zf_colla (TMFYrjpHhdig-wwx9QNQoPqXkCYtyNbjVmL3)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $r1\_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zf\_colla : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(v3\_ordinal1\ X1) \Rightarrow (k1\_zf\_colla\ X0\ X1 = ReplSep\ (toset\ (\lambda X2 : \iota.m1\_subset\_1\ X2\ X0)) (\lambda X2 : \iota.\forall X3.(m1\_subset\_1\ X3\ X0) \Rightarrow (\neg(X3 \in X2) \wedge (\forall X4. (v3\_ordinal1\ X4) \Rightarrow (\neg(X4 \in X1) \wedge (X3 \in k1\_zf\_colla\ X0\ X4))))) (\lambda X2 : \iota.X2))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v3\_ordinal1\ X0) \wedge (v3\_ordinal1\ X1)) \Rightarrow ((r1\_ordinal1\ X0\ X1) \Leftrightarrow (r1\_tarski\ X0\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski\ X0\ X1) \Leftrightarrow (\forall X2.(X2 \in X0) \Rightarrow (X2 \in X1)) \tag{3}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(v3\_ordinal1\ X1) \Rightarrow (\forall X2.(v3\_ordinal1\ X2) \Rightarrow ((r1\_ordinal1\ X1\ X2) \Rightarrow (r1\_tarski\ (k1\_zf\_colla\ X0\ X1)\ (k1\_zf\_colla\ X0\ X2)))))$$