t11_cgames_1 (TMR-WYpEDAQ5hEHNbEEvH2fd3YVwcTVE14TP)

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Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $v2\_cgames\_1 : \iota \Rightarrow o$ be given. Let $k2\_cgames\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_cgames\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_cgames\_1 : \iota \Rightarrow \iota$ be given. Let $k8\_cgames\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(v3\_ordinal1\ X1) \Rightarrow (\forall X2.(v2\_cgames\_1\ X2) \Rightarrow (((X2 \in k2\_cgames\_1\ X1) \wedge (X0 \in k8\_cgames\_1\ X2)) \Rightarrow (X0 \in k2\_cgames\_1\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.(v2\_cgames\_1\ X0) \Rightarrow (k8\_cgames\_1\ X0 = k2\_xboole\_0\ (k6\_cgames\_1\ X0)\ (k7\_cgames\_1\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2\_xboole\_0\ X0\ X1) \Leftrightarrow (\forall X3.\ (X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \tag{3}$$

Theorem 1

$$\forall X0.\forall X1.(v3\_ordinal1\ X1) \Rightarrow (\forall X2.(v2\_cgames\_1\ X2) \Rightarrow ((X2 \in k2\_cgames\_1\ X1) \Rightarrow (((\neg X0 \in k6\_cgames\_1\ X2) \wedge (\neg X0 \in k7\_cgames\_1\ X2)) \vee (X0 \in k2\_cgames\_1\ X1))))$$