t13_classes1 (TMHqXrbE85fUV4Db3ycJ6vocsoTtLTYs4Cr)

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Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $v4\_ordinal1 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k3\_classes1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_classes1 : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(v3\_ordinal1\ X1) \Rightarrow ((v4\_ordinal1\ X1) \Rightarrow ((X1 = k1\_xboole\_0) \vee (k3\_classes1\ X0\ X1 = ReplSep\ (toset\ (\lambda X2 : \iota. m1\_subset\_1\ X2\ (k1\_classes1\ X0)))\ (\lambda X2 : \iota.\exists X3.(v3\_ordinal1\ X3) \wedge ((X3 \in X1) \wedge (X2 \in k3\_classes1\ X0\ X3)))\ (\lambda X2 : \iota.X2)))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X2))) \Rightarrow (m1\_subset\_1\ X0\ X2) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(v3\_ordinal1\ X1) \Rightarrow (m1\_subset\_1\ (k3\_classes1\ X0\ X1)\ (k1\_zfmisc\_1\ (k1\_classes1\ X0))) \tag{3}$$

Assume the following.

$$k1\_xboole\_0 = the\ (\lambda X0 : \iota.v1\_xboole\_0\ X0) \tag{4}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.(v3\_ordinal1\ X2) \Rightarrow ((v4\_ordinal1\ X2) \Rightarrow ((X2 = k1\_xboole\_0) \vee ((X1 \in k3\_classes1\ X0\ X2) \Leftrightarrow (\exists X3.(v3\_ordinal1\ X3) \wedge ((X3 \in X2) \wedge (X1 \in k3\_classes1\ X0\ X3)))))))$$