t2_finseqop (TMaKebqBQ7GXiS8qryhiLUn6L9Qpro7PRWd)

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Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k15\_funct\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $v5\_ordinal1 : \iota \Rightarrow o$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $k5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(k2\_zfmisc\_1\ X0\ X1 = k1\_xboole\_0) \Leftrightarrow ((X0 = k1\_xboole\_0) \vee (X1 = k1\_xboole\_0)) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge (v1\_funct\_1\ X0)) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge (v1\_funct\_1\ X1)) \Rightarrow (k10\_xtuple\_0\ (k15\_funct\_3\ X0\ X1) = k2\_zfmisc\_1\ (k10\_xtuple\_0\ X0)\ (k10\_xtuple\_0\ X1))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow (((k9\_xtuple\_0\ X0 = k1\_xboole\_0) \vee (k10\_xtuple\_0\ X0 = k1\_xboole\_0)) \Rightarrow (X0 = k1\_xboole\_0)) \tag{3}$$

Assume the following.

$$(k9\_xtuple\_0\ k1\_xboole\_0 = k1\_xboole\_0) \wedge (k10\_xtuple\_0\ k1\_xboole\_0 = k1\_xboole\_0) \tag{4}$$

Assume the following.

$$\forall X0 : \iota \Rightarrow \iota.\forall X1.\exists X2.((v1\_relat\_1\ X2) \wedge ((v1\_funct\_1\ X2) \wedge (v5\_ordinal1\ X2))) \wedge ((k9\_xtuple\_0\ X2 = X1) \wedge (\forall X3.(v3\_ordinal1\ X3) \Rightarrow (\forall X4.((v1\_relat\_1\ X4) \wedge ((v1\_funct\_1\ X4) \wedge (v5\_ordinal1\ X4))) \Rightarrow (((X3 \in X1) \wedge (X4 = k5\_relat\_1\ X2\ X3)) \Rightarrow (k1\_funct\_1\ X2\ X3 = X0\ X4))))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_relat\_1\ X0) \wedge (v1\_funct\_1\ X0)) \wedge ((v1\_relat\_1\ X1) \wedge (v1\_funct\_1\ X1))) \Rightarrow ((v1\_relat\_1\ (k15\_funct\_3\ X0\ X1)) \wedge (v1\_funct\_1\ (k15\_funct\_3\ X0\ X1))) \tag{6}$$

Theorem 1

$$\forall X0.((v1\_relat\_1\ X0)\wedge(v1\_funct\_1\ X0))\Rightarrow((k15\_funct\_3\ k1\_xboole\_0\ X0 = k1\_xboole\_0)\wedge(k15\_funct\_3\ X0\ k1\_xboole\_0 = k1\_xboole\_0))$$