

t14_exchsort
(TMRorHSg9ss4LZg36y141LakY27fqywhuAz)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v3_exchsort : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k3_ordinal2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(X0 \in X1) \Rightarrow (X0 \in k3_ordinal2 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_exchsort X1 X0) \Leftrightarrow (X0 = k3_ordinal2 (k9_xtuple_0 X1))) \quad (2)$$

Theorem 1

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (\forall X2. ((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \Rightarrow (((v3_exchsort X2 X0) \wedge (X1 \in k9_xtuple_0 X2)) \Rightarrow (X1 \in X0))))$$