

t81_cohsp_1
(TMKbtU6S6s6wMmGPnPM7Vm2DjSvUJFHurdK)

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Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k14_cohsp_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarSKI : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (k2_zfmisc_1 (k2_xboole_0 X0 \\ X1) X2 = k2_xboole_0 (k2_zfmisc_1 X0 X2) (k2_zfmisc_1 X1 X2)) \wedge (k2_zfmisc_1 \\ X2 (k2_xboole_0 X0 X1) = k2_xboole_0 (k2_zfmisc_1 X2 X0) (k2_zfmisc_1 \\ X2 X1)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. k14_cohsp_1 X0 X1 = k2_xboole_0 (k2_zfmisc_1 X0 (k1_tarSKI np_1)) (k2_zfmisc_1 X1 (k1_tarSKI np_2)) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. k2_xboole_0 (k2_xboole_0 X0 X1) X2 = k2_xboole_0 X0 (k2_xboole_0 X1 X2) \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \tag{4}$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \forall X3. k2_xboole_0 (k14_cohsp_1 X0 X1) (k14_cohsp_1 X2 X3) = k14_cohsp_1 (k2_xboole_0 X0 X2) (k2_xboole_0 X1 X3)$$