

t14_coh_sp
(TMZP3iQdHmPwjgf2YANiyA9vH8egBHcxCrk)

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Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_2 : \iota \Rightarrow o$ be given. Let $v3_relat_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_coh_sp : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_toler_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_classes1 : \iota \Rightarrow o$ be given. Let $v1_coh_sp : \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_partfun1 X1 X0) \wedge ((v1_relat_2 X1) \wedge \\ & ((v3_relat_2 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 \\ & X0)))))) \Rightarrow ((\neg v1_xboole_0 (k2_coh_sp X0 X1)) \wedge ((v1_classes1 (k2_coh_sp \\ & X0 X1)) \wedge (v1_coh_sp (k2_coh_sp X0 X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_partfun1 X1 X0) \wedge ((v1_relat_2 X1) \wedge \\ & ((v3_relat_2 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 \\ & X0)))))) \Rightarrow (\forall X2. ((\neg v1_xboole_0 X2) \wedge ((v1_classes1 X2) \wedge \\ & (v1_coh_sp X2))) \Rightarrow ((X2 = k2_coh_sp X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow \\ & (\forall X4. \forall X5. ((X4 \in X3) \wedge (X5 \in X3)) \Rightarrow (k4_tarski X4 X5 \in X1)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_relat_2 X1) \wedge ((v3_relat_2 X1) \wedge ((v1_partfun1 \\ & X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))) \Rightarrow \\ & (\forall X2. (m1_toler_1 X2 X0 X1) \Leftrightarrow (\forall X3. \forall X4. ((X3 \in \\ & X2) \wedge (X4 \in X2)) \Rightarrow (k4_tarski X3 X4 \in X1))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_partfun1 X2 X0) \wedge ((v1_relat_2 \\ & X2) \wedge ((v3_relat_2 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 X0)))))) \Rightarrow ((X1 \in k2_coh_sp X0 X2) \Leftrightarrow (m1_toler_1 X1 X0 X2)) \end{aligned}$$