

t36_coh_sp
(TMHcKtuA2zsHecUvMLjzAnivU47Nz6e47FS)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_eqrel_1 : \iota \Rightarrow \iota$ be given. Let $k16_coh_sp : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k15_coh_sp : \iota \Rightarrow \iota$ be given. Let $v3_relat_2 : \iota \Rightarrow o$ be given. Let $v8_relat_2 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_2 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (k1_eqrel_1 X0 \in k15_coh_sp X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0. (v3_relat_2 (k1_eqrel_1 X0)) \wedge ((v8_relat_2 (k1_eqrel_1 X0)) \wedge (v1_partfun1 (k1_eqrel_1 X0) X0)) \quad (4)$$

Assume the following.

$$\forall X0. (v1_relat_2 (k1_eqrel_1 X0)) \wedge (v1_partfun1 (k1_eqrel_1 X0) X0) \quad (5)$$

Assume the following.

$$\forall X0. m1_subset_1 (k1_eqrel_1 X0) (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.k4_tarSKI X0 X1 = k2_tarSKI (k2_tarSKI X0 X1) (k1_tarSKI X0) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.k16_coh_sp X0 = & ReplSep2 (toset (\lambda X1 : \iota.m1_subset_1 \\ & X1 (k15_coh_sp X0))) (\lambda X1 : \iota.toset (\lambda X2 : \iota.m1_subset_1 \\ & X2 (k1_zfmisc_1 X0))) (\lambda X1 : \iota.\lambda X2 : \iota.(v1_partfun1 X1 \\ X2) \wedge ((v1_relat_2 X1) \wedge ((v3_relat_2 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X2 X2))))) (\lambda X1 : \iota.\lambda X2 : \iota.k4_tarSKI X1 \\ & X2) \end{aligned} \quad (8)$$

Theorem 1

$$\forall X0.\forall X1.(r1_tarSKI X0 X1) \Rightarrow (k4_tarSKI (k1_eqrel_1 X0) X0 \in k16_coh_sp X1)$$