

t31_coh_sp (TMb-
CASKB4X1Vw84kN3m8HmFmGg82S4hhS4Z)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_partfun1 : \iota \Rightarrow \iota$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_2 : \iota \Rightarrow o$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3_relat_2 (k6_partfun1 X0)) \wedge ((v8_relat_2 (k6_partfun1 X0)) \wedge ((v1_partfun1 (k6_partfun1 X0) X0) \wedge (m1_subset_1 (k6_partfun1 X0) (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in k15_coh_sp X1) \Leftrightarrow (\exists X2.(r1_tarski X2 X1) \wedge ((v1_partfun1 X0 X2) \wedge ((v1_relat_2 X0) \wedge ((v3_relat_2 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 X2 X2))))))) \quad (2)$$

Assume the following.

$$\forall X0.k6_partfun1 X0 = k4_relat_1 X0 \quad (3)$$

Assume the following.

$$\forall X0.(v1_partfun1 (k6_partfun1 X0) X0) \wedge (m1_subset_1 (k6_partfun1 X0) (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))) \quad (4)$$

Assume the following.

$$\forall X0.v1_relat_1 (k4_relat_1 X0) \quad (5)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v3_relat_2 X0) \wedge (v8_relat_2 X0))) \Rightarrow ((v1_relat_1 X0) \wedge (v1_relat_2 X0)) \quad (6)$$

Theorem 1

$$\forall X0.\forall X1.(r1_tarski X0 X1) \Rightarrow (k6_partfun1 X0 \in k15_coh_sp X1)$$