

t21_e_siec
(TMZX6JxcUqtFyghMRytWjsrR4eUyo9jHKrh)

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Let $v2_e_siec : \iota \Rightarrow o$ be given. Let $v3_e_siec : \iota \Rightarrow o$ be given. Let $l1_e_siec : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k13_e_siec : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_e_siec : \iota \Rightarrow \iota$ be given. Let $k14_e_siec : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k2_relat_1 : \iota \Rightarrow \iota$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $u2_e_siec : \iota \Rightarrow \iota$ be given. Let $u1_e_siec : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X2 X1)) \Rightarrow (r1_tarski (k2_xboole_0 X0 X2) X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow ((r1_tarski X2 (k2_zfmisc_1 X0 X1)) \Rightarrow (r1_tarski (k2_relat_1 X2) (k2_zfmisc_1 X1 X0))) \quad (2)$$

Assume the following.

$$\forall X0. r1_tarski (k4_relat_1 X0) (k2_zfmisc_1 X0 X0) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X0) \wedge (v1_relat_1 X1)) \Rightarrow (v1_relat_1 (k2_xboole_0 X0 X1)) \quad (4)$$

Assume the following.

$$\forall X0. (l1_e_siec X0) \Rightarrow (v1_relat_1 (u2_e_siec X0)) \quad (5)$$

Assume the following.

$$\forall X0. (l1_e_siec X0) \Rightarrow (v1_relat_1 (u1_e_siec X0)) \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0. (& l1_e_siec\ X0) \Rightarrow ((v2_e_siec\ X0) \Leftrightarrow ((r1_tarSKI\ (u1_e_siec \\ & X0)\ (k2_zfmisc_1\ (u1_struct_0\ X0)\ (u1_struct_0\ X0))) \wedge ((r1_tarSKI \\ & (u2_e_siec\ X0)\ (k2_zfmisc_1\ (u1_struct_0\ X0)\ (u1_struct_0\ X0))) \wedge \\ & ((k3_relat_1\ (u1_e_siec\ X0)\ (u1_e_siec\ X0) = u1_e_siec\ X0) \wedge ((k3_relat_1 \\ & (u1_e_siec\ X0)\ (u2_e_siec\ X0) = u1_e_siec\ X0) \wedge ((k3_relat_1\ (u2_e_siec \\ & X0)\ (u2_e_siec\ X0) = u2_e_siec\ X0) \wedge (k3_relat_1\ (u2_e_siec\ X0)\ (\\ & u1_e_siec\ X0) = u2_e_siec\ X0)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0. (& (v2_e_siec\ X0) \wedge ((v3_e_siec\ X0) \wedge (l1_e_siec\ X0))) \Rightarrow \\ & (k14_e_siec\ X0 = k2_xboole_0\ (k2_xboole_0\ (k2_relat_1\ (u1_e_siec \\ & X0))\ (u2_e_siec\ X0))\ (k4_relat_1\ (u1_struct_0\ X0))) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0. (& (v2_e_siec\ X0) \wedge ((v3_e_siec\ X0) \wedge (l1_e_siec\ X0))) \Rightarrow \\ & (k13_e_siec\ X0 = k2_relat_1\ (k2_xboole_0\ (u1_e_siec\ X0)\ (u2_e_siec \\ & X0))) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0. (& (v2_e_siec\ X0) \wedge ((v3_e_siec\ X0) \wedge (l1_e_siec\ X0))) \Rightarrow \\ & (k12_e_siec\ X0 = u1_struct_0\ X0) \end{aligned} \quad (10)$$

Assume the following.

$$\forall X0. \forall X1. k2_xboole_0\ X0\ X1 = k2_xboole_0\ X1\ X0 \quad (11)$$

Theorem 1

$$\begin{aligned} \forall X0. (& (v2_e_siec\ X0) \wedge ((v3_e_siec\ X0) \wedge (l1_e_siec\ X0))) \Rightarrow \\ & ((r1_tarSKI\ (k13_e_siec\ X0)\ (k2_zfmisc_1\ (k12_e_siec\ X0)\ (k12_e_siec \\ & X0))) \wedge (r1_tarSKI\ (k14_e_siec\ X0)\ (k2_zfmisc_1\ (k12_e_siec\ X0) \\ & (k12_e_siec\ X0)))) \end{aligned}$$