

## t15\_e\_siec

(TMLz3ZnDsssaWRbfxEX3yXoHnLVWWKsYUWY)

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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  $k3\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u1\_e\_siec : \iota \Rightarrow \iota$  be given. Let  $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $u2\_e\_siec : \iota \Rightarrow \iota$  be given. Let  $k4\_relat\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_relat\_1 X0) \Rightarrow ((k3\_relat\_1 k1\_xboole\_0 X0 = k1\_xboole\_0) \wedge (k3\_relat\_1 X0 k1\_xboole\_0 = k1\_xboole\_0)) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_relat\_1 X0) \Rightarrow (\forall X1.(v1\_relat\_1 X1) \Rightarrow (\forall X2.(v1\_relat\_1 X2) \Rightarrow (k3\_relat\_1 (k3\_relat\_1 X0 X1) X2 = k3\_relat\_1 X0 (k3\_relat\_1 X1 X2)))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(v1\_relat\_1 X0) \Rightarrow (v1\_relat\_1 (k4\_xboole\_0 X0 X1)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.v1\_relat\_1 (k3\_relat\_1 X0 X1) \quad (4)$$

Assume the following.

$$\forall X0.(l1\_e\_siec X0) \Rightarrow ((v3\_e\_siec X0) \Leftrightarrow ((k3\_relat\_1 (u1\_e\_siec X0) (k4\_xboole\_0 (u1\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0)))) = k1\_xboole\_0) \wedge (k3\_relat\_1 (u2\_e\_siec X0) (k4\_xboole\_0 (u2\_e\_siec X0) (k4\_relat\_1 (u1\_struct\_0 X0))) = k1\_xboole\_0)) \quad (5)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(l1\_e\_siec\ X0) \Rightarrow ((v2\_e\_siec\ X0) \Leftrightarrow ((r1\_tarSKI\ (u1\_e\_siec\ X0) \\
& (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))) \wedge ((r1\_tarSKI\ (u2\_e\_siec\ X0) \\
& (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))) \wedge \\
& ((k3\_relat\_1\ (u1\_e\_siec\ X0)\ (u1\_e\_siec\ X0) = u1\_e\_siec\ X0) \wedge ((k3\_relat\_1 \\
& (u1\_e\_siec\ X0)\ (u2\_e\_siec\ X0) = u1\_e\_siec\ X0) \wedge ((k3\_relat\_1\ (u2\_e\_siec \\
& X0)\ (u2\_e\_siec\ X0) = u2\_e\_siec\ X0) \wedge (k3\_relat\_1\ (u2\_e\_siec\ X0)\ ( \\
& u1\_e\_siec\ X0) = u2\_e\_siec\ X0))))))
\end{aligned} \tag{6}$$

**Theorem 1**

$$\begin{aligned}
& \forall X0.((v2\_e\_siec\ X0) \wedge ((v3\_e\_siec\ X0) \wedge (l1\_e\_siec\ X0))) \Rightarrow \\
& ((k3\_relat\_1\ (u1\_e\_siec\ X0)\ (k4\_xboole\_0\ (u2\_e\_siec\ X0)\ (k4\_relat\_1 \\
& (u1\_struct\_0\ X0))) = k1\_xboole\_0) \wedge (k3\_relat\_1\ (u2\_e\_siec\ X0) \\
& (k4\_xboole\_0\ (u1\_e\_siec\ X0)\ (k4\_relat\_1\ (u1\_struct\_0\ X0))) = k1\_xboole\_0)
\end{aligned}$$