

## t29\_partit\_2

(TMSxq51rygP1V2AB7cjbJ6WFXbNDJidtgv2)

October 27, 2020

Let  $v1\_xboole\_0 : \iota \Rightarrow o$  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  $r5\_relat\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v5\_relat\_2 : \iota \Rightarrow o$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k1\_relat\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(k4\_tarski\ X0\ X1 \in k2\_zfmisc\_1\ X2\ X3) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X3)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X1\ X2))) \Rightarrow (\neg(X0 \in X3) \wedge (\forall X4.\forall X5. \neg(X0 = k4\_tarski\ X4\ X5) \wedge ((X4 \in X1) \wedge (X5 \in X2)))) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow (\forall X1.(r5\_relat\_2\ X0\ X1) \Leftrightarrow (\forall X2.\forall X3.\neg(X2 \in X1) \wedge ((X3 \in X1) \wedge ((k4\_tarski\ X2\ X3 \in X0) \wedge (k4\_tarski\ X3\ X2 \in X0)))))) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow ((v5\_relat\_2\ X0) \Leftrightarrow (r5\_relat\_2\ X0\ (k1\_relat\_1\ X0))) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))) \Rightarrow (v1\_relat\_1\ X2) \quad (5)$$

### Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))) \Rightarrow ((r5\_relat\_2\ X1\ X0) \Rightarrow (v5\_relat\_2\ X1)))$$