

t4_quaterni (TMLcxb-
ZLNg8ScwadGYdU2yZVHKrRxXMt2vP)

October 27, 2020

Let $r2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & \forall X6. \forall X7. r1_tarski (k10_xtuple_0 (k2_quaterni X0 \\ & X1 X2 X3 X4 X5 X6 X7)) (k2_enumset1 X4 X5 X6 X7) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & \forall X6. \forall X7. (r2_zfmisc_1 X0 X1 X2 X3) \Rightarrow (r1_tarski (k2_enumset1 \\ & X4 X5 X6 X7) (k10_xtuple_0 (k2_quaterni X0 X1 X2 X3 X4 X5 X6 X7))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (X0 = X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (r1_tarski X1 X0)) \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & \forall X6. \forall X7. (r2_zfmisc_1 X0 X1 X2 X3) \Rightarrow (k10_xtuple_0 \\ & (k2_quaterni X0 X1 X2 X3 X4 X5 X6 X7) = k2_enumset1 X4 X5 X6 X7) \end{aligned}$$