t6_quatern2 (TMc8Gv5CLBn16zizNyu1dqQNrtBM75cDFdg)

October 27, 2020

Let $v1\_quaterni : \iota \Rightarrow o$ be given. Let $k26\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k29\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_quaterni : \iota$ be given. Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (\forall X1.(v1\_quaterni\ X1) \Rightarrow (\forall X2.\ (v1\_quaterni\ X2) \Rightarrow (k29\_quaterni\ X1\ X2 = k26\_quaterni\ (k29\_quaterni\ X1\ X0)\ (k29\_quaterni\ X0\ X2)))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (\forall X1.(v1\_quaterni\ X1) \Rightarrow (X0 = k29\_quaterni\ (k26\_quaterni\ X0\ X1)\ X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_quaterni\ X0) \wedge (v1\_quaterni\ X1)) \Rightarrow (m1\_subset\_1\ (k29\_quaterni\ X0\ X1)\ k1\_quaterni) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_quaterni\ X0) \wedge (v1\_quaterni\ X1)) \Rightarrow (m1\_subset\_1\ (k26\_quaterni\ X0\ X1)\ k1\_quaterni) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_quaterni\ X0) \wedge (v1\_quaterni\ X1)) \Rightarrow (k26\_quaterni\ X0\ X1 = k26\_quaterni\ X1\ X0) \tag{5}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_quaterni) \Rightarrow (v1\_quaterni\ X0) \tag{6}$$

Theorem 1

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (\forall X1.(v1\_quaterni\ X1) \Rightarrow (\forall X2.\ (v1\_quaterni\ X2) \Rightarrow (k26\_quaterni\ (k29\_quaterni\ X0\ X1)\ X2 = k29\_quaterni\ (k26\_quaterni\ X0\ X2)\ X1)))$$