t43_quatern2 (TM-MytLrD26CBcfmXQXdSNMsqtKq6GTTbFZx)

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Let $k17\_quatern2 : \iota \Rightarrow \iota$ be given. Let $k5\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k16\_quatern2 : \iota$ be given. Let $k31\_quaterni : \iota \Rightarrow \iota$ be given. Let $k22\_quaterni : \iota$ be given. Let $v1\_quaterni : \iota \Rightarrow o$ be given. Let $k30\_quaterni : \iota \Rightarrow \iota$ be given. Let $k2\_quatern2 : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_quaterni : \iota$ be given. Let $v36\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l6\_algstr\_0 : \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $u1\_algstr\_0 : \iota \Rightarrow \iota$ be given. Let $k10\_quatern2 : \iota$ be given. Let $u2\_algstr\_0 : \iota \Rightarrow \iota$ be given. Let $k12\_quatern2 : \iota$ be given. Let $k4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_quatern2 : \iota$ be given. Assume the following.

$$k31\_quaterni\ k22\_quaterni = k22\_quaterni \tag{1}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (k31\_quaterni\ X0 = k30\_quaterni\ X0) \tag{2}$$

Assume the following.

$$k2\_quatern2 = k22\_quaterni \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k16\_quatern2)) \Rightarrow (k17\_quatern2\ X0 = k30\_quaterni\ X0) \tag{4}$$

Assume the following.

$$m1\_subset\_1\ k2\_quatern2\ k1\_quaterni \tag{5}$$

Assume the following.

$$v1\_quaterni\ k22\_quaterni \tag{6}$$

Assume the following.

$$(v36\_algstr\_0\ k16\_quatern2) \wedge (l6\_algstr\_0\ k16\_quatern2) \tag{7}$$

Assume the following.

$$k22\_quaterni = np\_\_1 \tag{8}$$

Assume the following.

$$\begin{array}{c}\forall X0.((v36\_algstr\_0\ X0)\wedge(l6\_algstr\_0\ X0))\Rightarrow((X0 = k16\_quatern2)\Leftrightarrow\\ ((u1\_struct\_0\ X0 = k1\_quaterni)\wedge((u1\_algstr\_0\ X0 = k10\_quatern2)\wedge\\ ((u2\_algstr\_0\ X0 = k12\_quatern2)\wedge((k5\_struct\_0\ X0 = k2\_quatern2)\wedge\\ (k4\_struct\_0\ X0 = k1\_quatern2))))))\end{array} \tag{9}$$

Theorem 1 $k17\_quatern2\ (k5\_struct\_0\ k16\_quatern2) = k5\_struct\_0\ k16\_quatern2$.