t53_quaterni (TMGiGDSPF-BDM5UWsKLY3P7KFfoEX8r8mt8H)

October 27, 2020

Let $k31\_quaterni : \iota \Rightarrow \iota$ be given. Let $k12\_quaterni : \iota$ be given. Let $k28\_quaterni : \iota \Rightarrow \iota$ be given. Let $k17\_quaterni : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k18\_quaterni : \iota \Rightarrow \iota$ be given. Let $k19\_quaterni : \iota \Rightarrow \iota$ be given. Let $k20\_quaterni : \iota \Rightarrow \iota$ be given. Let $k1\_real\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $v1\_quaterni : \iota \Rightarrow o$ be given. Let $k11\_quaterni : \iota$ be given. Let $k30\_quaterni : \iota \Rightarrow \iota$ be given. Let $k5\_quaterni : \iota$ be given. Let $k26\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k23\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k25\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xcmplx\_0 : \iota$ be given. Assume the following.

$$(k17\_quaterni\ (k31\_quaterni\ k12\_quaterni) = k6\_numbers) \wedge ((k18\_quaterni\ (k31\_quaterni\ k12\_quaterni) = k6\_numbers) \wedge ((k19\_quaterni\ (k31\_quaterni\ k12\_quaterni) = k6\_numbers) \wedge (k20\_quaterni\ (k31\_quaterni\ k12\_quaterni) = k1\_real\_1\ np\_\_1))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow ((k17\_quaterni\ (k31\_quaterni\ X0) = k17\_quaterni\ X0) \wedge ((k18\_quaterni\ (k31\_quaterni\ X0) = k1\_real\_1\ (k18\_quaterni\ X0)) \wedge ((k19\_quaterni\ (k31\_quaterni\ X0) = k1\_real\_1\ (k19\_quaterni\ X0)) \wedge (k20\_quaterni\ (k31\_quaterni\ X0) = k1\_real\_1\ (k20\_quaterni\ X0))))) \tag{2}$$

Assume the following.

$$(k17\_quaterni\ k11\_quaterni = k6\_numbers) \wedge ((k18\_quaterni\ k11\_quaterni = k6\_numbers) \wedge ((k19\_quaterni\ k11\_quaterni = np\_\_1) \wedge ((k20\_quaterni\ k11\_quaterni = k6\_numbers) \wedge ((k17\_quaterni\ k12\_quaterni = k6\_numbers) \wedge ((k18\_quaterni\ k12\_quaterni = k6\_numbers) \wedge ((k19\_quaterni\ k12\_quaterni = k6\_numbers) \wedge (k20\_quaterni\ k12\_quaterni = np\_\_1))))))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (k31\_quaterni\ X0 = k30\_quaterni\ X0) \tag{4}$$

Assume the following.

$$k12\_quaterni = k5\_quaterni \tag{5}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (k28\_quaterni\ X0 = k26\_quaterni\ (k26\_quaterni\ (k23\_quaterni\ (k1\_real\_1\ (k17\_quaterni\ X0))\ (k25\_quaterni\ (k1\_real\_1\ (k18\_quaterni\ X0))\ k1\_xcmplx\_0))\ (k25\_quaterni\ (k1\_real\_1\ (k19\_quaterni\ X0))\ k11\_quaterni))\ (k25\_quaterni\ (k1\_real\_1\ (k20\_quaterni\ X0))\ k12\_quaterni)) \tag{6}$$

Assume the following.

$$v1\_quaterni\ k5\_quaterni \tag{7}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (k30\_quaterni\ X0 = k26\_quaterni\ (k26\_quaterni\ (k23\_quaterni\ (k17\_quaterni\ X0)\ (k25\_quaterni\ (k1\_real\_1\ (k18\_quaterni\ X0))\ k1\_xcmplx\_0))\ (k25\_quaterni\ (k1\_real\_1\ (k19\_quaterni\ X0))\ k11\_quaterni))\ (k25\_quaterni\ (k1\_real\_1\ (k20\_quaterni\ X0))\ k12\_quaterni)) \tag{8}$$

Theorem 1 $k31\_quaterni\ k12\_quaterni = k28\_quaterni\ k12\_quaterni$.