

t11\_quaterni  
(TMZF<sub>xv5</sub>DGSffWiVQERgAkYcGCoDJjJV2Ssf)

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Let  $r2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & \forall X6. \forall X7. (r2\_zfmisc\_1 X0 X1 X2 X3) \Rightarrow ((k1\_funct\_1 ( \\ & k2\_quaterni X0 X1 X2 X3 X4 X5 X6 X7) X0 = X4) \wedge ((k1\_funct\_1 (k2\_quaterni \\ & X0 X1 X2 X3 X4 X5 X6 X7) X1 = X5) \wedge ((k1\_funct\_1 (k2\_quaterni X0 X1 X2 X3 \\ & X4 X5 X6 X7) X2 = X6) \wedge (k1\_funct\_1 (k2\_quaterni X0 X1 X2 X3 X4 X5 X6 X7) \\ & X3 = X7)))) \end{aligned} \tag{1}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \\ & \forall X6. \forall X7. \forall X8. \forall X9. \forall X10. \forall X11. \\ & ((r2\_zfmisc\_1 X0 X1 X2 X3) \wedge (k2\_quaterni X0 X1 X2 X3 X4 X5 X6 X7 = k2\_quaterni \\ & X0 X1 X2 X3 X8 X9 X10 X11)) \Rightarrow ((X4 = X8) \wedge ((X5 = X9) \wedge ((X6 = X10) \wedge (X7 = X11)))) \end{aligned}$$