

t38_quofield

(TMcvNhydE3euRrYnbE9E9SmXoeSP4Hyc1Lp)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v6_struct_0 : \iota \Rightarrow o$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $v5_group_1 : \iota \Rightarrow o$ be given. Let $v4_vectsp_1 : \iota \Rightarrow o$ be given. Let $v5_vectsp_1 : \iota \Rightarrow o$ be given. Let $v1_vectsp_2 : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $k5_struct_0 : \iota \Rightarrow \iota$ be given. Let $k19_quofield : \iota \Rightarrow \iota$ be given. Let $k12_quofield : \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k11_quofield : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k7_quofield : \iota \Rightarrow \iota$ be given. Let $r1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_algstr_0 : \iota \Rightarrow \iota$ be given. Let $k15_quofield : \iota \Rightarrow \iota$ be given. Let $u2_algstr_0 : \iota \Rightarrow \iota$ be given. Let $k16_quofield : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. ((\neg v2_struct_0 X0) \wedge ((\neg v6_struct_0 X0) \wedge ((v13_algstr_0 \\
 & X0) \wedge ((v2_rlvect_1 X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge \\
 & ((v3_group_1 X0) \wedge ((v5_group_1 X0) \wedge ((v4_vectsp_1 X0) \wedge ((v5_vectsp_1 \\
 & X0) \wedge ((v1_vectsp_2 X0) \wedge (l6_algstr_0 X0)))))))))) \Rightarrow ((u1_struct_0 \\
 & (k19_quofield X0) = k7_quofield X0) \wedge ((r1_funct_2 (k2_zfmisc_1 \\
 & (u1_struct_0 (k19_quofield X0)) (u1_struct_0 (k19_quofield X0))) \\
 & (u1_struct_0 (k19_quofield X0)) (k2_zfmisc_1 (k7_quofield X0) \\
 & (k7_quofield X0)) (k7_quofield X0) (u1_algstr_0 (k19_quofield \\
 & X0)) (k15_quofield X0)) \wedge ((r1_funct_2 (k2_zfmisc_1 (u1_struct_0 \\
 & (k19_quofield X0)) (u1_struct_0 (k19_quofield X0))) (u1_struct_0 \\
 & (k19_quofield X0)) (k2_zfmisc_1 (k7_quofield X0) (k7_quofield \\
 & X0)) (k7_quofield X0) (u2_algstr_0 (k19_quofield X0)) (k16_quofield \\
 & X0)) \wedge ((k4_struct_0 (k19_quofield X0) = k11_quofield X0) \wedge (k5_struct_0 \\
 & (k19_quofield X0) = k12_quofield X0))))))
 \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge (\neg v6_struct_0 X0) \wedge (v13_algstr_0 \\ &X0) \wedge (v2_rlvect_1 X0) \wedge (v3_rlvect_1 X0) \wedge (v4_rlvect_1 X0) \wedge \\ &((v3_group_1 X0) \wedge (v5_group_1 X0) \wedge (v4_vectsp_1 X0) \wedge (v5_vectsp_1 \\ &X0) \wedge (v1_vectsp_2 X0) \wedge (l6_algstr_0 X0)))))) \Rightarrow ((k5_struct_0 \\ &(k19_quofield X0) = k12_quofield X0) \wedge (k4_struct_0 (k19_quofield \\ &X0) = k11_quofield X0)) \end{aligned}$$