

t48_dickson
(TMPDXuFp5UiRtoPfv9KM4xg9uQssaYsiEN)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v4_dickson : \iota \Rightarrow o$ be given. Let $v3_dickson : \iota \Rightarrow o$ be given. Let $r1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $v1_wellfnd1 : \iota \Rightarrow o$ be given. Let $k5_dickson : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (((v3_dickson X0) \wedge (v4_dickson X0)) \Rightarrow (v1_wellfnd1 (k5_dickson X0))) \quad (1)$$

Assume the following.

$$\forall X0. (l1_orders_2 X0) \Rightarrow (\forall X1. (l1_orders_2 X1) \Rightarrow ((r1_relset_1 (u1_struct_0 X0) (u1_struct_0 X0) (u1_orders_2 X0) (u1_orders_2 X1)) \wedge ((v4_dickson X0) \wedge (u1_struct_0 X0 = u1_struct_0 X1))) \Rightarrow (v4_dickson X1))) \quad (2)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. ((\neg v2_struct_0 X1) \wedge (l1_orders_2 X1)) \Rightarrow (((v4_dickson X0) \wedge ((v3_dickson X1) \wedge ((r1_relset_1 (u1_struct_0 X0) (u1_struct_0 X0) (u1_orders_2 X0) (u1_orders_2 X1)) \wedge (u1_struct_0 X0 = u1_struct_0 X1)))) \Rightarrow (v1_wellfnd1 (k5_dickson X1))))$$