Capable 2-generator 2-groups of class two

Comm. Algebra **34** (2006) 2183–2193

Notes

The classification of 2-generated 2-groups of class two presented in Theorem 3.1 turns out to be incomplete; in addition, the families are not disjoint. The conclusions obtained are correct, and in fact exhaust all capable 2-generator 2-groups of class two, as the missing family of groups does not include any capable group, and the overlap in the families is reflected in Theorem 8.1 (the overlap is capable, and appears listed twice in the conclusion).

A correct classification of the 2-generated p-groups of class two (for all primes) appears in Theorem 1.1 of

- A. Ahmad, A. Magidin, and R.F. Morse, *Two generator p-groups of nilpotency class 2 and their conjugacy classes*, *Publ. Math. Debrecen* **81** (2012), pp. 145–166.

The verification of the determination of the capable groups in terms of this new classification can be found in

- A. Magidin and R.F. Morse, *Certain homological functors of 2-generator p-grops of class 2*, in *Computational Group Theory and the Theory of Groups II*, Contemporary Mathematics vol 511, American Mathematical Society, Providence, RI (2010), pp. 127–166.

Section 6 of the preceding paper explains the relation between the two classifications.