

1014-20-381

**Luise-Charlotte Kappe\*** ([menger@math.binghamton.edu](mailto:menger@math.binghamton.edu)), Department of Mathematical Sciences, SUNY at Binghamton, Binghamton, NY 13902-6000. *On Autocommutators in Groups.*

It is well known that the set of commutators is not equal to the commutator subgroup and numerous examples with this property are in the literature. A similar phenomenon should occur for autocommutators and the autocommutator subgroup. But so far, no example appears in the literature. We show that for a finite abelian group the set of autocommutators is equal to the autocommutator subgroup. With the help of GAP we obtain a group of order 64 in which not every element of the autocommutator subgroup is an autocommutator. This group is of minimal order with this property. (Received September 13, 2005)