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Luise-Charlotte Kappe* (menger@math.binghamton.edu), Department of Mathematical Sciences, SUNY at Binghamton, Binghamton, NY 13902-6000. *Groups with their commutator subgroup unequal to the set of commutators*. Preliminary report.

What is the smallest possible order of a group having its commutator subgroup unequal to its set of commutators? Folklore has it that the order is 96. This can be easily verified using GAP, and in fact, there are two such groups of order 96. But what is involved obtaining this result with traditional means? A lot of interesting group theory. We will discuss some of the methods involved, look at the history of the problem and some of the open problems in this context. (Received September 29, 2000)