Meeting: 1003, Atlanta, Georgia, AMS CP 1, AMS Contributed Paper Session

1003-20-100 **Arturo Magidin*** (magidin@member.ams.org), Department of Mathematical Sciences, The University of Montana, Missoula, MT 59812-0864. *Capable two generator p-groups of class two.*

A group G is capable if it is isomorphic to the central qoutient of another group; that is, if $G \cong H/Z(H)$ for some group H. We characterize the capable p-groups which are two-generated and of nilpotency class at most two, for all primes p. For odd prime, the group is regular and the equality of the two largest type invariants is both necessary and sufficient. For $p = 2$, the situation is more complicated. (Received August 07, 2004)