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Risto Atanasov* (ratanasov@email.wcu.edu). *Nilpotency class of powerful p -subgroups*. Preliminary report.

A finite p -group G is called *powerful* if either p is odd and $[G, G] \subseteq G^p$ or $p = 2$ and $[G, G] \subseteq G^4$. We will discuss results that bound the nilpotency class of a powerful p -group in terms of the exponent of a quotient by a normal subgroup. This is a joint work with Ilir Snopche and Slobodan Tanushevski. (Received September 25, 2017)