



# GROUPS WITH RESTRICTIONS ON CONJUGACY CLASSES

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25 November 2021, h: 15:00 – Aula Anni and  
Google Meet

A celebrated theorem of B.H. Neumann states that if  $G$  is a group with boundedly finite conjugacy classes, then the commutator subgroup of  $G$  is finite with bounded order. There are in literature many generalizations of Neumann's theorem and various results in some way related with it; for instance, E. Detomi, G. Donadze, M. Morigi and P. Shumiatsky have recently proved that if in a group  $G$  the orbits under the action of  $G'$  by conjugation are boundedly finite, then the third term  $\gamma_3(G)$  of the lower central series of  $G$  is finite with bounded order.

Here, the structure of groups with boundedly Černikov conjugacy classes will be discussed.



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