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2. Algebra

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Subbotin, Igor Ya., National University, USA Kurdachenko, Leonid A., Dnepropetrovsk University, Ukraine,

On groups with many periodic factor-groups

Let X be a class of groups. A group G is called a *a just-non-X-group* if G is not an X-group but all its proper factor-groups are X-groups. M. F. Newman described just-non-abelian groups. The study of just infinite groups was done by D. McCarthy, J. S. Wilson. J. R. Groves, and later D. J. S. Robinson and J. S. Wilson considered the soluble groups with polycyclic and supersoluble proper factor-groups. Groups with Chernikov proper factor-groups and just-non-FC-groups have been investigated by S. Franciosi, F. de Giovanni and L. A. Kurdachenko. S. Franciosi and F. de Giovanni also considered just-non-N_c groups. Just-non-CC-groups have been studied by L. A. Kurdachenko and J. Otal. The description of just non-hypercentral groups and just-non-hyperfinite groups is the subject of our talk.