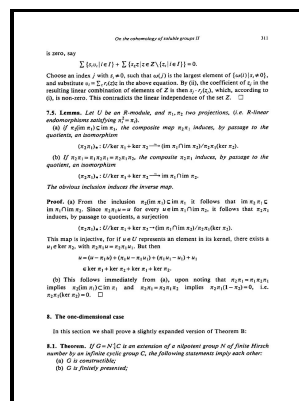


# Soluble and nilpotent linear groups

American Mathematical Society - CiteSeerX — LINEAR REPRESENTATIONS OF SOLUBLE GROUPS OF FINITE MORLEY RANK



Description: -

-Soluble and nilpotent linear groups

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Translations of mathematical monographs -- 9Soluble and nilpotent linear groups

Notes: Translation of: Razreshimye i nilpotentnye lineinye gruppy, originally published Minsk: Izd-vo Belgosuniversiteta, 1958.

This edition was published in 1963



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Tags: #The #composition #and #derived #lengths #of #a #soluble #group

## Soluble(solvable) and nilpotent groups

Clearly all solvable groups are virtually solvable, since one can just choose the group itself, which has index 1.

## Nilpotent subgroups of finite soluble groups

This idea is motivated by the fact that nilpotent groups are , and for finite nilpotent groups, two elements having orders must commute. An important and much studied branch of the theory of linear groups is the theory of classical groups see and , for example.

## Nilpotent subgroups of finite soluble groups

This property is also used in complexity theory in the proof of.

## ShieldSquare

. Further, the is bounded from above by the. We prove this lemma inductively.

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