ON CHARACTERIZATION OF THE NIL-RIGID SERIES

ANTHONY MPHO MATLALA
UNIVERSITY OF WITWATERSRAND, SOUTH AFRICA

A new series of ideals of R is defined, where the ideals are intersections of annihilators of certain monogenic R-groups, and it is proved that this new series contains the nil-rigid series. These monogenic R-groups are members of some special alternating chains of R-subgroups of a faithful R- group Ω, called Ω-*chains*. A specially defined length of an Ω-chain determine the nil-rigid length of R.