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Title: On abelian and central factors of expa	anded groups		
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In this paper, we study the respective rel factors of an expanded group and ring and ce expanded group as a nearring module over its functions. Building upon these results, we fur between solvability and nilpotency of the exp tency of this nearring module.	ationships between entral factors of nearring of ze rther study the anded group a	ween abelian f the group r ro preserving e respective r nd solvabilit	and centra educt of the g polynomia celationships y and nilpo
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