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On Graded Weakly Prime Ideals

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Abstract: Let G be an arbitrary group with identity e , and let R be a G -graded commutative ring. Weakly prime ideals in a commutative ring with non-zero identity have been introduced and studied in [1]. Here we study the graded weakly prime ideals of a G -graded commutative ring. A number of results concerning graded weakly prime ideals are given. For example, we give some characterizations of graded weakly prime ideals and their homogeneous components.

Key Words: Graded rings, Graded weakly prime ideals



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