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Turkish Journal	Graded multiplication modules and the graded ideal $\theta_{\rm g}$ (M)
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Authors	<u>Abstract:</u> Let G be a group and let R be a G-graded commutative ring. For a graded R-module M, the notion of the associated graded ideal θ_a (M) of R is defined. It is proved that the graded ideal θ_a (M) is
	important in the study of graded multiplication modules. Among various application given, the following results are proved: if M is a graded faithful multiplication module, then θ_{a} (M) is an idempotent graded
@	multiplication ideal of R such that $\theta_g (\theta_g (M)) = \theta_g (M)$, and every graded representable multiplication R-module is finitely generated.
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