EXTENDED JACOBSON DENSITY THEOREM FOR GRADED RINGS WITH DERIVATIONS AND AUTOMORPHISMS

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Abstract. In this talk, we first introduce graded Jacobson radicals, graded local modules, $M$-outer derivations and $M$-outer automorphisms of graded rings. After that, we show a version of the Chevalley-Jacobson density theorem for graded rings with derivations and automorphisms. Furthermore, some applications of the density theorem concerning derivations in graded rings are presented.

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