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Functional Identities and Graded Lie and Jordan Algebras

I will talk about a new approach to the study of gradings on simple Lie and Jordan algebras of not necessarily finite dimension over fields with minor restrictions on the characteristic of the field of coefficients. The main tool is Functional Identities described in a 2007 Birkhauser monograph under the same title by Bresar–Chebotar–Martindale. The new results about the gradings are contained in papers joint with Matej Bresar and Ivan Shestakov.