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Ben Cox* (coxbl@cofc.edu), 66 George St., Math Dept., College of Charleston, Charleston, SC 29401, Vyacheslav Futorny, Math Department, University of Sao Paulo, Sao Paulo, Brazil, and Juan Tirao, Faculty of Mathematics, Astronomy and Physics, National University of Cordoba, 5000, Cordoba, Argentina. DJKM algebras, their Universal Central Extension and Orthogonal Polynomials. Preliminary report.

We describe families of polynomials arising in the study of the universal central extensions of Lie algebras introduced by Date, Jimbo, Kashiwara, and Miwa in their work on the Landau-Lifshitz differential equation. Two of the families of polynomials we show satisfy certain forth order linear differential equations and are orthogonal. (Received August 26, 2012)