

Kontsevich and Buchstaber Polynomials, Multiplication Kernels, and N-valued Group Laws

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We shall discuss several partial results of ongoing work in collaboration (with I. Gaiur & D. Van Straten and with V. Buchstaber & I. Gaiur) on interesting properties of multiplication kernels, which include the famous Sonine –Gegenbauer formulas, examples of polynomials for Buchstaber–Kontsevich discriminant locus given as addition laws for special 2-valued formal groups (Buchstaber–Novikov–Veselov) as well as a connection of N-Bessel kernel discriminant loci with N-valued multiplication laws given by Buchstaber-Rees polynomials.

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