

REPRESENTATION OF LIE ALGEBRA K₅ AND HERMITE CONVOLUTION OF 2-VARIABLE GENOCCHI POLYNOMIALS

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Abstract

Dattoli et al. [G. Dattoli, C. Cesarano and S. Lorenzutta, Bernoulli numbers and polynomials from a more general point of view, Rendiconti di Mathematica e delle sue Applicazioni 22 (2002), 193-202] defined the Hermite convolution of Bernoulli polynomials. Similarly, we define Hermite convolution of 2-variable Genocchi polynomials, and using them, we give a representation of the Lie algebra K_5 .

Keywords and phrases: Lie algebra K_5 , Hermite convolution of 2-variable Genocchi polynomials.

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