



**REPRESENTATION OF LIE ALGEBRA K_5 AND
GENERALIZED EXTENDED APPELL-KAMPÉ
DE FÉRIET POLYNOMIALS**

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Abstract

G. Dattoli et al. [G. Dattoli, S. Lorenzutta, G. Maino and A. Torre, Theory of multiindex multivariable Bessel functions and Hermite polynomials, *Matematiche (Catania)* 52(1) (1997), 179-197] defined the extended Appell-Kampé de Fériet polynomials. We define generalized extended Appell-Kampé de Fériet polynomials, and using them, we give a representation of the Lie algebra K_5 .

Keywords and phrases: Lie algebra K_5 , extended Appell-Kampé de Fériet polynomials.

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