

REPRESENTATION OF LIE ALGEBRA K_5 AND ASSOCIATED FUNCTIONS $w_n(x, y)$ OF THE HEAT POLYNOMIALS

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Abstract

By using the associated functions $w_n(x, y)$ [A. Torre, Airy polynomials, three-variable Hermite polynomials and the paraxial wave equation, J. Opt. 14 (2012), 45704, pp. 24] of the heat polynomials, we give a representation of the Lie algebra K_5 .

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