



**REPRESENTATION OF LIE ALGEBRA \tilde{K}_5 AND
3-VARIABLE HERMITE-MODIFIED
LAGUERRE POLYNOMIALS**

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Received November 27, 2019; Revised December 16, 2019

Abstract

Using the 3-variable Hermite-modified Laguerre polynomials [S. Khan and N. Raza, Hermite-Laguerre matrix polynomials and generating relations, Reports on Math. Phys. 73 (2014), 137-164], we give a representation of the Lie algebra \tilde{K}_5 [T. Takebayashi, Representation of Lie algebra \tilde{K}_5 and Appell polynomials, Pioneer Journal of Mathematics and Mathematical Sciences 28(2) (2020), 111-116].

Keywords and phrases: Lie algebra \tilde{K}_5 , 3-variable Hermite-modified Laguerre polynomials.

Pioneer Journal
of Mathematics
and Mathematical
Sciences



Pioneer Scientific
Publisher