

REPRESENTATION OF LIE ALGEBRA sl(2) AND 2-VARIABLE DEFORMED MODIFIED LAGUERRE POLYNOMIALS

Tadayoshi Takebayashi

Received December 14, 2019

Abstract

S. Khan and N. A. M. Hassan [S. Khan and N. A. M. Hassan, 2-variable Laguerre matrix polynomials and Lie algebraic techniques, J. Phys. A: Math. Theor. 43 (2010), 235204, pp. 21] defined the 2-variable deformed modified Laguerre polynomials and using them, they constructed a representation of the Lie algebra sl(2). We give another representation of sl(2) by the similar method.

Keywords and phrases: Lie algebra sl(2), 2-variable deformed modified Laguerre polynomials.

ISSN: 2230-9829

Pioneer Journal of Mathematics and Mathematical Sciences



Pioneer Scientific Publisher