REPRESENTATION OF LIE ALGEBRA $\widetilde{K}_5$ AND GOULD-HOPPER-MILLER-LEE POLYNOMIALS

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Abstract

We give a representation of the Lie algebra $\widetilde{K}_5$ [T. Takebayashi, Representation of Lie algebra $\widetilde{K}_5$ and Appell polynomials, Pioneer J. Math. Math. Sci. 28(2) (2020), 111-116] (see also [Willard Miller, Jr., Lie theory and special functions, Mathematics in Science and Engineering, Vol. 43, Academic Press, New York and London, 1968]), by using the Gould-Hopper-Miller-Lee polynomials [S. Khan and N. Raza, General-Appell polynomials within the context of monomiality principle, International Journal of Analysis 2013 (2013), 1-11].