

REPRESENTATION OF THE LIE ALGEBRA T_3 AND HERMITE-TRICOMI FUNCTIONS

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Abstract

Dattoli et al. [G. Dattoli, P. E. Ricci, I. Khomasuridze, On the derivation of new families of generating functions involving ordinary Bessel functions and Bessel-Hermite functions, Mathematical and Computer Modeling 46 (2007), 410-414] defined the Hermite-Tricomi function of mth order $C_n^{(m)}(x, y)$. Using them, we give a representation of the Lie algebra T_3 .

Keywords and phrases: Lie algebra T_3 , Hermite-Tricomi functions.

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