



REPRESENTATION OF THE LIE ALGEBRA K_5
AND INCOMPLETE 2D HERMITE
POLYNOMIALS

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Abstract

In [G. Dattoli, Incomplete 2D Hermite polynomials: properties and applications, Journal of Mathematical Analysis and Applications 284(2) (2003), 447-454], G. Dattoli defined the incomplete 2D Hermite polynomials $h_{m,n}(x, y|\tau)$. Using $h_{m,n}(x, y|\tau)$, we give a representation of the Lie algebra K_5 .

Keywords and phrases: Lie algebra K_5 , incomplete 2D Hermite polynomials.

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