

REPRESENTATION OF THE LIE ALGEBRA K₅ AND HERMITE MATRIX POLYNOMIALS

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Abstract

In [L. Jódar and R. Company, Hermite matrix polynomials and second order matrix differential equations, Approx. Theory Appl. (N.S.) 12(2) (1996), 20-30], L. Jódar and R. Company defined the Hermite matrix polynomials (HMP). We give a representation of the Lie algebra K_5 by using HMP.

Keywords and phrases: Lie algebra K_5 , Hermite matrix polynomials.

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