

**Analytic Evaluation of Factorial Polynomials
For 2x2 Nonautonomous Matrices**

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Abstract

We make use of the previously derived solution for a system of two coupled finite difference equations with variable coefficients to obtain explicit expressions for factorial polynomials (Pochhammers) of 2×2 nonautonomous matrices. We present combinatorial, recursive, and graphical methods for the evaluation of these expressions.