

Projects

Interpolation theory

Discrete arguments (power polynomials, power rational functions)

Extension to confluent arguments

D Extension to transformation of Schur's series

D Polynomial and rational function theory

D Sequence theory

D Theory of stratified commutative ring

D Bürmann series over a field

D Factorisations of a triangular matrix

D Functional interpolation

D Interpolation by the use of rational functions

o Numal in FORTRAN

D Convergence and truncation error bounds for associated continued fractions

D Stability functions

D The Hamburger-Pick-Nevanlinna problem

D On rational approximations to the exponential function

D Integral transforms of continued fractions: an array of functions

D The extraction of totally monotone sequences from convergents of a.c.f.

D The principal and alternating sums of a function defined over a strip in the complex plane.

D Talk: How to find the centre of a spiral

D Variants of the remainder terms in the Euler Maclaurin and Borel series

D Zeta functions of positive integer order

Connections between various classes of functions of a complex

D variable

D Generalisations of the β - and γ -algorithm integration processes

D Expression of corresponding continued fraction coefficients in closed form

D Convergence of noncommutative continued fractions

D The expression of moments as continued fraction integrals

D Iterated ~~sets~~ transforms of the form $F_1(F_2(\dots))$ where $F_i(z) = \int_0^{\infty} \frac{d\beta_i(\beta)}{1+z\beta}$

Auxiliary sequence transformation before application of ε -alg.;

D transformation of monotonic sequences by means of ε -alg.

D Commuting Cayley numbers;

Extension of determinantal identities and algorithmic recursions to noncommutative and nonassociative forms by the use of linear algebraic equations

D Zur Theorie der Padé'schen Tafel

D The derivation of expressions representing ε -algorithm vectors by

D differentiation of scalar expressions involving inner products

D Numerical experiments in nonassociative algebras

D The abstract theory of the ε -algorithm

D Continued fraction transformations of the Euler-Maclaurin series

o Numerical experiments in optimisation, vector ϵ -algorithm, etc.

D The analytic continuation of functions defined by an integral transform

Numerical efficiency profile function

D Physical significance of $\int_a^b \frac{ds(t)}{z-t}$

o Book on ϵ -algorithm

D Resumé of book on ϵ -algorithm

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