

OP - SF NET - Volume 15, Number 3 – May 15, 2008

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The Electronic News Net of the
SIAM Activity Group on Orthogonal Polynomials and Special Functions

<http://math.nist.gov/opsf/>

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Today's Topics:

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2. Stephen Milne awarded Euler medal
3. Peter Lesky 1926-2008
4. Further remarks on Peter Lesky's work
5. Proceedings, Munich 2005
6. Preprints in arXiv.org
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Calendar of Events:

May 19-20, 2008:

Workshop on Orthogonal Polynomials and Special Functions on the occasion of
the 50th birthday of Walter Van Assche, Leuven, Belgium 15.2 #1

<http://wis.kuleuven.be/analyse/arno/walter50/WOPSF.html>

June 3-9, 2008:

Constructive Theory of Functions
Campos do Jordão, Brazil, June 3-9, 2008

<http://www.ibilce.unesp.br/CTF-08>

14.6, #6, 15.3, #1

June 16-26 2008:

Foundations of Computational Mathematics, City University of Hong Kong at
Hong Kong, China

WORKSHOP A6

Special functions and orthogonal polynomials

ORGANISERS: Peter Clarkson, Guillermo Lopez, Mourad Ismail & Ed Saff

WORKSHOP B1

Asymptotic analysis

ORGANISERS: Arno Kuijlaars & Roderick Wong

<http://www.damtp.cam.ac.uk/user/na/FoCM/FoCM08/>

June 22 - 28, 2008:

8th International Conference on Symmetries and Integrability of Difference Equations (SIDE 8), Ste-Adele, Quebec, Canada 14.6, #7

http://www.crm.umontreal.ca/SIDE8/index_e.shtml

June 22-28, 2008:

Combinatorics 2008 - Costermano, Verona, Italy.

<http://combinatorics.ing.unibs.it/>

June 23 – 27, 2008 :

Conference on Differential and Difference Equations and Applications 2008 (CDDEA 2008), Strečno (close to Žilina), Slovak Republic

<http://fpv.uniza.sk/cddea2008/page.php?id=19&action=show>

June 30 - July 4, 2008:

The European Consortium For Mathematics In Industry (ECMI 2008) Including minisymposium MS10: Asymptotic Analysis (Organisers: Diego Dominici and Richard Paris), University College London, England

<http://www.ecmi2008.org/>

July 7 - 11, 2008:

ICCAM 2008 - 13th International Congress on Computational and Applied Mathematics, Ghent, Belgium

<http://www.iccam.ugent.be/index.php?page=themes.html>

July 21-25, 2008:

Workshop "Elliptic integrable systems, isomonodromy problems, and hypergeometric functions", Hausdorff Center for Mathematics, Bonn, Germany 15.1 #2

<http://www.hausdorff-center.uni-bonn.de/elliptic-integrable-systems>

July 21-25, 2008:

Fourteenth International Conference on Difference Equations and Applications (ICDEA2008), Bahçeşehir University, İstanbul, Turkey
<http://icdea.bahcesehir.edu.tr/about.htm>

August 12-18, 2008:

Fifth International Conference of Applied Mathematics and Computing, Plovdiv, Bulgaria 14.6, #9
<http://math.uctm.edu/conference2008/>

August 13-19, 2008:

XXVII International Colloquium on Group Theoretical Methods in Physics (Group-27), Yerevan, Armenia 14.6, #8
<http://theor.jinr.ru/~group27/>

August 25--29, 2008

[International Conference Approximation & Computation](http://www.ams.org/mathcal/info/2008_aug25-29_nis.html) - Faculty of Electronic Engineering, University of Nis, Nis, Serbia
http://www.ams.org/mathcal/info/2008_aug25-29_nis.html

September 8-12, 2008:

International Workshop on Orthogonal Polynomials and Approximation Theory, in honor to the 60th Birthday of Guillermo López Lagomasino, Madrid. Spain 14.6, #10
<http://www.uc3m.es/iwopa08/>

September 10, 2008

[Nonlinear Differential Equations, A Tribute to the work of Patrick Habets & Jean Mawhin on the occasion of their 65th birthdays](http://www.ams.org/mathcal/info/2008_sep10_brussels.html) Académie Royale de Belgique, Brussels, Belgium.
http://www.ams.org/mathcal/info/2008_sep10_brussels.html

September 15-19, 2008:

SIMAI Congress (Italian Society for Applied and Industrial Mathematics), in cooperation with SIAM, Rome, Italy 15.2, #3
<http://www.simai.eu>

September 16--20, 2008

[International Conference of Numerical Analysis and Applied Mathematics 2008 \(ICNAAM 2008\)-Honoring John Butcher on the occasion of his 75th birthday](http://www.ams.org/mathcal/info/2008_sep16-20_kos.html) - Hotel Kypriotis Village-Kypriotis Panorama-Kypriotis International Conference Center, Psalidi, Kos, Greece.
http://www.ams.org/mathcal/info/2008_sep16-20_kos.html

September 19--26, 2008

Harmonic Analysis and Approximations, IV (International Conference) -

Tsaghkadzor, Armenia.

<http://math.sci.am/conference/sept2008/conf.html>

October 4-5, 2008:

AMS Fall Western Section Meeting, Vancouver, Canada, including Special Session on *Special Functions and Orthogonal Polynomials*, organized by Mizanur Rahman and Diego Dominici,

http://www.ams.org/amsmtgs/2139_program_ss2.html#title

October 5--12, 2008

International Conference on Differential Equations, Function Spaces, and Approximation Theory: Dedicated to the 100th anniversary of the birthday of S. L. Sobolev - Sobolev Institute of Mathematics, Novosibirsk, Russia.

<http://math.nsc.ru/conference/sobolev100/english/>

October 11-13, 2008:

International Conference on Applied Mathematics and Approximation Theory honoring P.L. Butzer on the occasion of his 80th birthday, Memphis, Tennessee, USA

15.1 #6

<http://www.msci.memphis.edu/AMAT2008/>

October 20--22, 2008

International Conference on Analysis and Its Applications - Aligarh Muslim University, Aligarh, India.

<http://www.amudirectory.com/ICAA08> . For update information:

<http://ICAA-08.tripod.com>

November 5--7, 2008

Fractional Differentiation and its Applications - Ankara, Turkey.

<http://www.cankaya.edu.tr/fda08/>

December 15-16, 2008:

Rolling Waves in Leuven - a workshop on the occasion of Adhemar Bultheel's 60th Birthday, Leuven, Belgium

15.2, #2

<http://www.cs.kuleuven.be/~raf/ade2008/>

April 19--26, 2009

NoDIA-2009: Nonlinear Differential Equations, Integrability and Applications - Cape Town, South Africa.

<http://www.sm.luth.se/~norbert/nodia09.html>

Topic #1 ----- OP-SF NET 15.3 ----- May 15, 2008

From: Paul Nevai: nevai@math.ohio-state.edu
Subject: Constructive Theory of Functions, Brazil

Dear Colleagues:

IN SHORT

June 3 - 9, 2008, Constructive Theory of Functions, Brazil, conference; see

www.ibilce.unesp.br/CTF-08

Please participate.

WITH MORE DETAILS

CTF-08 is the regular Varna Conference relocated to Campos do Jordão, half-way between Sao Paulo and Rio de Janeiro. Beautiful setting & ideal conditions.

NOTE. Both the abstract submission deadline and the registration deadline have been extended.

NOTE. Some of you might need a visa, including US citizens. It looks like getting a visa is terribly complicated BUT BUT BUT this is not at all true. In real life, it is a trivial matter despite the very complicated rules that no one seems to take seriously, not even the Brazilian consulate. I got my visa within 9 days, including the time it took to mail my passport back and forth.

NOTE. Make sure to fill out properly the question where you will be staying in Brazil, incl phone number; see

http://www.orotour.com.br:8080/ogh/o_hotel.htm

For details, please contact Dimitar; see

Dimitar K. Dimitrov = dimitrov@ibilce.unesp.br

REQUEST. Please circulate this e-mail among your approximator colleagues.

Sincerely, Paul Nevai [assistant to Dimitar]

P.S. Apologies for the multiple copies.

Topic #2 ----- OP-SF NET 15.3 ----- May 15, 2008

From: Tom Koornwinder thk@science.uva.nl

Subject: Stephen Milne awarded Euler medal

Stephen Milne was awarded the 2007 Euler Medal for "a senior member of the ICA [The Institute of Combinatorics and its Applications] who is still active in research and who has made substantial and important contributions to combinatorial research during his research career". The award to be presented during the Fortieth Southeastern International Conference on Combinatorics, Graph Theory, and Computing to be held at Florida Atlantic University, Boca Raton, Florida in March 2009.

For earlier winners, see

http://en.wikipedia.org/wiki/Euler_Medal

Topic #3 ----- OP-SF NET 15.3 ----- May 15, 2008

From: Wolfram Koepf koepf@mathematik.uni-kassel.de

Subject: Peter Lesky 1926-2008



Prof. Dr. Peter Lesky 1926-2008

Obituary

Prof. Dr. phil. Peter Albin Lesky died in Innsbruck, Austria on February 12, 2008, at the age of 81, having had a fulfilled life.

Peter Lesky was born in Graz, Austria, in December 1926, in a teachers' family. After a humanistic education and military service in former Yugoslavia he studied Mathematics and Physics in Graz and Innsbruck. He was lucky to have such high-ranking colleagues as Wolfgang Gröbner (who taught applied mathematics and orthogonal polynomials), Johann Radon (who taught calculus of variations) and Leopold Vietoris (who taught set theory and topology) as teachers. One imagines Gröbner bases, Radon measures and Vietoris homology.

After his 1950 PhD in Innsbruck his PhD advisor Wolfgang Gröbner sent him to the INAC (Istituto Nazionale per le Applicazioni del Calcolo) in Rome led by Mauro Picone where he wrote his first mathematical articles. Then a period of 13 years (1952-1965) followed where he worked as a high school teacher in Innsbruck. Along the way he wrote his habilitation thesis (1959) and later worked as teaching assistant at the University of Innsbruck (1962-1965).

Eventually in 1965 he accepted a professorship at the University of Stuttgart (Germany) where he would remain until retirement. He co-authored 13 textbooks and monographs and published 80 mathematical articles during his academic career, most of them connected with orthogonal polynomials and hypergeometric functions. Also 14 of his 17 PhD students (see <http://www.genealogy.ams.org/id.php?id=51662>) wrote dissertations about orthogonal polynomials. However, his work is not as well-recognized internationally as it could be since most of the articles were in German, as were his students' dissertations.

In particular, I would like to mention that in 1962 he published several papers in which he gave a classification for both the classical OP systems ("Die Charakterisierung der klassischen orthogonalen Polynome durch Sturm-Liouvillesche Differentialgleichungen", following Bochner 1929) as well as for the now-called classical discrete OP systems ("Über Polynomsysteme, die Sturm-Liouvilleschen Differenzgleichungen genügen" and "Orthogonale Polynomsysteme als Lösungen Sturm-Liouvillescher Differenzgleichungen"). Furthermore his 2005 monograph "Eine Charakterisierung der klassischen kontinuierlichen, diskreten und q -Orthogonalpolynome" (again in German) completed his classification for the complete Askey-Wilson scheme of orthogonal polynomials.

Besides his research, Lesky was very interested in music and he participated as a choir member in 13 operatic performances in the Innsbruck theatre. Mountain climbing and skiing were further hobbies. He told me: "To get one of the assistant positions at the university my students needed three skills: mathematics, mountain climbing and skiing. The latter two could be acquired later." As former high school teacher he was also very much interested in pedagogical issues. I had the opportunity to attend one of his lectures on mathematical structures in Stuttgart in 1974, and I remember very well his balanced lecturing style.

We have lost a very active member of the orthogonal polynomials community and a friend.

Topic #4 ----- OP-SF NET 15.3 ----- May 15, 2008

From: Tom Koornwinder, thk@science.uva.nl

Subject Further remarks on Peter Lesky's work

Wolfram Koepf, in the previous Topic, mentioned the monograph "Eine Charakterisierung der klassischen kontinuierlichen-, diskreten- und q-Orthogonalpolynome" by Peter A. Lesky, 2005.

This was published by Shaker Verlag, ISBN 978-3-8322-3796-7.

For ordering see their webpage

<http://www.shaker.de/Online-Gesamtkatalog/details.asp?ISBN=3-8322-3796-7>

where also the (nonprintable) pdf version can be downloaded for a small fee.

Lesky's classification within the (q-)Askey scheme is more refined than the usual classifications because it includes parameter values for which only a finite subsystem of the full, usually infinite system of polynomials is orthogonal with respect to a positive orthogonality measure.

Roelof Koekoek and René Swarttouw had a joint project with Peter Lesky (which they hope to continue after his recent death) aiming at a book which will combine Lesky's classification results and the Koekoek-Swarttouw report on hypergeometric orthogonal polynomials. See

<http://aw.twi.tudelft.nl/~koekoek/classification.html>

Topic #5 ----- OP-SF NET 15.3 ----- May 15, 2008

From: Tom Koornwinder, thk@science.uva.nl

Subject Proceedings, Munich 2005

The web site

<http://www.worldscibooks.com/mathematics/6446.html>

describes the volume with the Proceedings of the conference

Difference equations, special functions and orthogonal polynomials, Munich, 2005.

DIFFERENCE EQUATIONS, SPECIAL FUNCTIONS AND ORTHOGONAL POLYNOMIALS

Proceedings of the International Conference

Munich, Germany 25 - 30 July 2005

edited by S Elaydi (Trinity University, USA), J Cushing (University of Arizona, USA), R Lasser, A Ruffing (Technical University of Munich, Germany), V Papageorgiou (University of Patras, Greece) & W Van Assche (Katholieke Universiteit Leuven, Belgium)

This volume contains talks given at a joint meeting of three communities working in the fields of difference equations, special functions and applications (ISDE, OPSFA, and SIDE). The articles reflect the diversity of the topics in the meeting but have difference equations as common thread. Articles cover topics in difference equations, discrete dynamical systems, special functions, orthogonal polynomials, symmetries, and integrable difference equations.

Readership: Researchers in analysis and differential equations, approximation theory and mathematical physics.

World Scientific Publishing Co.

778pp., Pub. date: May 2007

ISBN 978-981-270-643-0 and 981-270-643-7

US\$180 / £97

The Table of Contents lists over 60 items of which the following seem to be most closely connected with the fields of Orthogonal Polynomials and Special Functions:

* Pascal Matrix, Classical Polynomials and Difference Equations (L Aceto and D Trigiante)

* Logarithmic Order and Type of Indeterminate Moment Problems (C Berg and H L Pedersen with an Appendix by W. Hayman)

* A System of Biorthogonal Trigonometric Polynomials (E Berriochoa et al.)

* Quasi Monomiality and Linearization Coefficients for Sheffer Polynomial Sets (H. Chaggara)

*d –orthogonal Polynomial Sets of Chebyshev Type (Y. Ben Cheikh and N. Ben Romdhame)

* On Two Problems in Lacunary Polynomial Interpolation (M G de Bruin)

*Semiclassical Linear Functionals of Class 2: The Symmetric Case (A. M. Delgado and F. Marcellán)

- *A Renaissance for a q-umbral Calculus (T. Ernst)
- * Fourth-Order Bessel-Type Special Functions: A Survey (W N Everitt)
- * Computer Algebra Methods for Orthogonal Polynomials (W Koepf)
- *Two Normal Ordering Problems and Certain Sheffer Polynomials (W. Lang)
- * Asymptotics and Zeros of Symmetrically Coherent Pairs of Hermite Type (M. G. De Bruijn et al)
- * Riemann–Hilbert Problem for a Generalized Nikishin System (A F Moreno)
- *Inequalities and Turánians for Some Special Functions (A. Laforgia and P. Natalini)
- *Asymptotics in the Complex Plane of the Third Painlevé Transcendent (V. Yu. Novoshenov)
- *Orthogonal Polynomials and the Bezout Identity (A. Ronveaux et al)
- *Information Entropy of Gegenbauer Polynomials (J. I. de Vicente et al)
- * Fine Structure of the Zeros of Orthogonal Polynomials: A Review (B Simon)
- *Heun Functions versus Elliptic Functions (G. Valent)
- * Discrete Painlevé Equations for Recurrence Coefficients of Orthogonal Polynomials (W. Van Assche)
- *Orthogonal Polynomials on \mathbb{R}^+ and Birth-Death Processes with Killing (P. Coolen-Schrijner and E. A. van Doorn)
- *Abel’s Method on Summation by Parts and Bilateral Well-poised ${}_3\psi_3$ -series Identities (W. C. Chu)

Topic #6 ----- OP-SF NET 15.3 ----- May 15, 2008

From: OP-SF NET Editors
 Subject: Preprints in arXiv.org

The following preprints related to the fields of orthogonal polynomials and special functions were posted or cross-listed to one of the subcategories of arXiv.org during March and April 2008.

<http://arxiv.org/abs/0803.3474>

Hypergeometric solutions for third order linear ODEs

Authors: [Edgardo S. Cheb-Terrab](#), [Austin D. Roche](#)

<http://arxiv.org/abs/0804.0655>

Identities between Appell's and hypergeometric functions

Authors: [Raimundas Vidunas](#)

<http://arxiv.org/abs/0804.1981>

Various considerations on hypergeometric series

Authors: [Leonhard Euler](#)

<http://arxiv.org/abs/0803.3592>

Differentiating polynomials, and zeta(2)

Authors: [David W. Farmer](#), [Robert Rhoades](#)

<http://arxiv.org/abs/0803.0286>

Aspects of stable polynomials

Authors: [Steve Fisk](#)

<http://arxiv.org/abs/0803.1146>

A combinatorial formula for Macdonald polynomials

Authors: [Arun Ram](#), [Martha Yip](#)

<http://arxiv.org/abs/0803.2311>

A bijective proof of a factorization formula for Macdonald polynomials at roots of unity

Authors: [Francois Descouens](#), [Hideaki Morita](#), [Yasuhide Numata](#)

<http://arxiv.org/abs/0804.1652>

Introducing Ramanujan's Class Polynomials in the Generation of Prime Order Elliptic Curves

Authors: [Elisavet Konstantinou](#), [Aristides Kontogeorgis](#)

<http://arxiv.org/abs/0804.2018>

On a Class of Polynomials with Integer Coefficients

Authors: [Milan Janjic](#)

Subjects: Complex Variables (math.CV)

<http://arxiv.org/abs/0804.0739>

On the equation $P(f)=Q(g)$, where P, Q are polynomials and f, g are entire functions

Authors: [F. Pakovich](#)

<http://arxiv.org/abs/0803.0425>

Pair correlation of the zeros of the derivative of the Riemann ζ -function

Authors: [David W. Farmer](#), [Steven M. Gonek](#)

<http://arxiv.org/abs/0803.0132>

On the mean values the Riemann zeta-function in short intervals

Authors: [Aleksandar Ivić](#)

<http://arxiv.org/abs/0804.1665>

Poles of regular quaternionic functions

Authors: [Caterina Stoppato](#)

<http://arxiv.org/abs/0804.0089>

Schlomilch and Bell Series for Bessel's Functions, with Probabilistic Applications

Authors: [E. Ostrovsky](#), [L. Sirota](#)

<http://arxiv.org/abs/0804.1081>

Construction of the Digamma Function by Derivative Definition

Authors: [Michael Morales](#)

<http://arxiv.org/abs/0804.1510>

Stationary Oscillations in a Damped Wave Equation from Isospectral Bessel Functions

Authors: [N. Barbosa-Cendejas](#), [M. A. Reyes](#)

<http://arxiv.org/abs/0803.2329>

A Taylor expansion theorem for an elliptic extension of the Askey-Wilson operator

Authors: [Michael J. Schlosser](#)

<http://arxiv.org/abs/0804.1623>

From Quantum Affine Symmetry to Boundary Askey-Wilson Algebra and Reflection Equation

Authors: [B.Aneva](#), [M.Chaichian](#), [P.P.Kulish](#)

<http://arxiv.org/abs/0803.1846>

Polynomial solutions of nonlinear integral equations

Authors: [Diego Dominici](#)

<http://arxiv.org/abs/0803.2483>

Value distribution of cyclotomic polynomial coefficients

Authors: [Yves Gallot](#), [Pieter Moree](#), [Huib Hommersom](#)

<http://arxiv.org/abs/0803.4396>

Real Roots of Random Polynomials and Zero Crossing Properties of Diffusion Equation

Authors: [Gregory Schehr](#), [Satya N. Majumdar](#)

<http://arxiv.org/abs/0803.0332>

The high energy semiclassical asymptotics of loci of roots of fundamental solutions for polynomial potentials

Authors: [Stefan Giller](#)

<http://arxiv.org/abs/0803.0331>

Weber-Schafheitlin's type integrals with exponent 1

Authors: [Johannes Kellendonk](#), [Serge Richard](#)

<http://arxiv.org/abs/0804.2564>

Painleve IV asymptotics for orthogonal polynomials with respect to a modified Laguerre weight

Authors: [Dan Dai](#), [Arno B.J. Kuijlaars](#) (K.U. Leuven, Belgium)

<http://arxiv.org/abs/0804.2585>

On the orthogonal polynomials associated with a Lévy process

Authors: [Josep Lluís Solé](#), [Frederic Utzet](#)

<http://arxiv.org/abs/0804.3572>

Matrix biorthogonal polynomials on the unit circle and non-abelian Ablowitz-Ladik hierarchy

Authors: [Mattia Cafasso](#)

<http://arxiv.org/abs/0804.3739>

A class of matrix-valued polynomials generalizing Jacobi Polynomials

Authors: [Rodica D. Costin](#)

<http://arxiv.org/abs/0804.3748>

Ratios of Norms for Polynomials and Connected n-width Problems

Authors: [V. A. Prokhorov](#), [E. B. Saff](#), [M. Yattselev](#)

<http://arxiv.org/abs/0804.4521>

Numerical solutions of integrodifferential systems by hybrid of general block-pulse functions and the second Chebyshev polynomials

Authors: [Xing Tao Wang](#)

<http://arxiv.org/abs/0804.0534>

Convergence Properties of Kemp's q-Binomial Distribution

Authors: [Stefan Gerhold](#), [Martin Zeiner](#)

<http://arxiv.org/abs/0804.0834>

q-Analogue of Gauss' Divisibility Theorem

Authors: [Hao Pan](#)

<http://arxiv.org/abs/0804.3611>

An identity for sums of polylogarithm functions

Authors: [Steven J Miller](#)

<http://arxiv.org/abs/0803.1304>

Euler-Hurwitz series and non-linear Euler sums

Authors: [Donal F. Connon](#)

<http://arxiv.org/abs/0803.1393>

On inversion formulas and Fibonomial coefficients

Authors: [A. Krzysztof Kwaśniewski](#), [Ewa Krot-Sieniawska](#)

<http://arxiv.org/abs/0803.1416>

New formulas for Stirling-like numbers and Dobinski-like formulas

Authors: [A. K. Kwasniewski](#)

<http://arxiv.org/abs/0803.0991>

Easy Proofs of Some Borwein Algorithms for π

Author: [Jesus Guillera](#)

<http://arxiv.org/abs/0803.1496>

The similarity problem for J -nonnegative Sturm-Liouville operators

Authors: [Illya M. Karabash](#), [Aleksey S. Kostenko](#), [Mark M. Malamud](#)

<http://arxiv.org/abs/0803.2736>

Integration of e^{x^n} and e^{-x^n} in forms of series, their applications in the field of differential equation and in introducing generalized form of Skewness and Kurtosis

Authors: [Tuhin Subhra Konar](#), [Surajit Paul](#)

<http://arxiv.org/abs/0803.3309>

Higher Order Riesz Transforms for Laguerre Expansions

Authors: [Jorge J. Betancor](#), [Juan C. Fariña](#), [Lourdes Rodriguez-Mesa](#), [Alejandro Sanabria-Garcia](#)

<http://arxiv.org/abs/0803.3354>

A Payne-Weinberger eigenvalue estimate for wedge domains on spheres

Authors: [Jesse Ratzkin](#), [Andrejs Treibergs](#)

<http://arxiv.org/abs/0803.3408>

Multivariate Analysis and Jacobi Ensembles: Largest eigenvalue, Tracy Widom Limits and Rates of Convergence

Author: [Iain M. Johnstone](#):

<http://arxiv.org/abs/0803.3993>

On the derivative of the associated Legendre function of the first kind of integer degree with respect to its order

Author: [Radoslaw Szmytkowski](#)

<http://arxiv.org/pdf/0803.0086>

Integrable pseudopotentials related to generalized hypergeometric functions

Author: [Alexander Odesskii](#), [Vladimir Sokolov](#)

<http://arxiv.org/pdf/0803.2929>

Quasi-exact solvable models based on special functions

Author: [S. N. Dolya](#)

<http://arxiv.org/abs/0804.0785>

Solutions of the Painleve VI Equation from Reduction of Integrable Hierarchy in a Grassmannian Approach

Author: [H. Aratyn](#), [J. van de Leur](#)

<http://arxiv.org/abs/0804.3136>

Some applications of the Beta function

Author: [Donal F. Connon](#)

<http://arxiv.org/abs/0804.3189>

A summation by Gencev

Author: [Donal F. Connon](#)

<http://arxiv.org/abs/0804.4210>

On Multiple Sums of Zeros for Some Special Functions

Author: [Ruiming Zhang](#)

Topic #7 ----- OP-SF NET 15.3 ----- May 15, 2008

From: OP-SF NET Editors

Subject: About the Activity Group

The SIAM Activity Group on Orthogonal Polynomials and Special Functions consists of a broad set of mathematicians, both pure and applied. The Group also includes engineers and scientists, students as well as experts. We have around 140 members scattered

about in more than 20 countries. Whatever your specialty might be, we welcome your participation in this classical, and yet modern, topic. Our WWW home page is:

<http://math.nist.gov/opsf/>

This is a convenient point of entry to all the services provided by the Group. Our Webmaster is Bonita Saunders (bonita.saunders@nist.gov).

The Activity Group sponsors OP-SF NET, which is transmitted periodically by SIAM. It is provided as a free public service; membership in SIAM is not required. The OP-SF Net Editors are Diego Dominici (dominicd@newpaltz.edu) and Martin Muldoon (muldoon@yorku.ca).

To receive the OP-SF NET, send your name and email address to poly-request@siam.org.

Back issues can be obtained at the WWW addresses:

<http://staff.science.uva.nl/~thk/opsfnet>

<http://www.math.ohio-state.edu/JAT/DATA/OPSFNET/opsfnet.html>

<http://cio.nist.gov/esd/emaildir/lists/opsfnet/maillist.html>

For several years the Activity Group sponsored a printed Newsletter, most recently edited by Rafael Yanez. Back issues are accessible at:
<http://www.mathematik.uni-kassel.de/~koepf/siam.html>

Given the widespread availability of email and the Internet, the need for the printed Newsletter has decreased. Discussions are underway concerning whether an annual printed Newsletter or Annual Report should be instituted.

SIAM has several categories of membership, including low-cost categories for students and residents of developing countries. For current information on SIAM and Activity Group membership, contact:

Society for Industrial and Applied Mathematics

3600 University City Science Center

Philadelphia, PA 19104-2688 USA

phone: +1-215-382-9800

email: service@siam.org

WWW : <http://www.siam.org>

<http://www.siam.org/membership/outreachmem.htm>

Finally, the Activity Group operates an email discussion group, called OP-SF Talk. To subscribe, send the email message

subscribe opsftalk Your Name

to listproc@nist.gov. To contribute an item to the discussion, send email to opsftalk@nist.gov. The archive of all messages is accessible at:

<http://math.nist.gov/opsftalk/archive>

Topic #8 ----- OP-SF NET 15.3 ----- May 15, 2008

From: OP-SF NET Editors

Subject: Submitting contributions to OP-SF NET

To contribute a news item to OP-SF NET, send email to poly@siam.org with a copy to one of the OP-SF Editors dominicd@newpaltz.edu or muldoon@yorku.ca . Contributions to OP-SF NET 15.4 should be sent by July 1, 2008.

OP-SF NET is a forum of the SIAM Activity Group on Special Functions and Orthogonal polynomials. We disseminate your contributions on anything of interest to the special functions and orthogonal polynomials community. This includes announcements of conferences, forthcoming books, new software, electronic archives, research questions, job openings.

Send submissions to: poly@siam.org

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<http://math.nist.gov/opsfnet/archive>

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The elected Officers of the Activity Group (2008-2010) are:

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Peter A. Clarkson, Vice Chair

Daniel W. Lozier, Secretary

Peter A. McCoy, Program Director

The appointed officers are:

Diego Dominici, OP-SF NET co-editor

Martin Muldoon, OP-SF NET co-editor

Bonita Saunders, Webmaster