

OP - SF NET - Volume 19, Number 4 - July 15, 2012

Editors:

Diego Dominici
Martin Muldoon

dominicd@newpaltz.edu
muldoon@yorku.ca

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

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

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Calendar of Events:

July 15 - 20, 2012

III Jaen Conference on Approximation. Ubeda, Spain, July 15-20, 2012.
<http://jja.ujaen.es> 19.2 #3

September 3-7, 2012

International Conference on Differential Equations, Difference Equations and Special Functions in memory of Professor Panayiotis D. Siafarikas, Patras, Greece. 19.1 #4 19.4 #3
<http://www.icddesf.upatras.gr/>

September 10-14, 2012

Conference on "Harmonic Analysis, Convolution Algebras, and Special Functions", Munich, Germany 19.4 #2
<http://www.helmholtz-muenchen.de/en/ibb/hacas2012>

September 19-25, 2012

10th International Conference of Numerical Analysis and Applied Mathematics, Kos, Greece
<http://www.icnaam.org/>

October 27-28, 2012

American Mathematical Society, Western Section Meeting, Tucson AZ, including a Special Session on ‘Special Functions and Orthogonal Polynomials’ organized by Diego Dominici , Tim Huber and Robert Maier.

http://www.ams.org/meetings/sectional/2203_program.html

November 5-7, 2012

Ramanujan 125 - A conference to commemorate the 125th anniversary of Ramanujan's birth, Gainesville FL, USA 19.3, #3

<http://www.math.ufl.edu/~fgarvan/ramanujan125.html>

March 25-2, 2013

12th International Symposium on Orthogonal Polynomials, Special Functions and Applications (OPSFA-12), Sousse, Tunisia 19.1, #2 19.3, #4

<http://matematicas.uc3m.es/index.php/seminarios/intern-meet-menu/12th-opsfa>

February 20-21, 2013

Conference on Special Functions and Orthogonal Polynomials, Riyadh, Saudi Arabia

<http://spconf.ksu.edu.sa/node/69>

June 12-15, 2013

The Third International Conference Nonlinear Waves --- Theory and Applications, Beijing, China

<http://lsec.cc.ac.cn/~icnwta3/>

July 1- 5, 2013

"Special Functions and Orthogonal Polynomials" The 6th Pacific RIM Conference on Mathematics, Sapporo City, Japan

<http://www.math.sci.hokudai.ac.jp/sympo/130701/sessions.html>

July 1- 6, 2013

Erdős Centennial Conference, Budapest, Hungary

<http://www.renyi.hu/conferences/erdos100/>

July 8-12, 2013

SIAM Annual Meeting, San Diego, California, USA (including OPSF “track”)

<http://www.siam.org/meetings/an13/> 18.5 #3

Topic #1 ----- OP-SF NET 19.4 ----- July 15, 2012

From: Tom Koornwinder T.H.Koornwinder@uva.nl
Subject: Gabor Szegő Prize, call for nominations (reminder)

[This was circulated to SIAM-OPSF on June 19, 2012. The submission information is changed from that in our May 15 issue.]

As was already communicated in OP-SF NET of May 15, 2012, nominations can be submitted now for the second award of the Gábor Szegő Prize. Read the details at

http://www.siam.org/prizes/nominations/nom_siag_szego.php

The prize will be awarded to an early-career researcher for outstanding research contributions in the area of orthogonal polynomials and special functions. Candidates should have at most 10 years (full time equivalent) of involvement in mathematics since PhD at the award date, allowing for breaks in continuity.

The selection committee consists of

Kathy Driver
Charles Dunkl
Tom H. Koornwinder
Francisco Marcellán (Chair)
Walter Van Assche

CHANGED SUBMISSION ADDRESS

Nominations should be sent with attachments to szego_prize@siam.org by September 15, 2012. (This is different from what was written in OP-SF NET of May 15, 2012.) Preferably also send a copy of the submission to the chair of the selection committee <pacomarc@ing.uc3m.es>.

A valid nomination requires 1.) A letter of nomination signed by two members of the SIAG/OPSF and 2.) the nominee's CV. The letter should indicate 3.) the paper(s) cited for the work being recognized, explain the significance of the work, and (in the case of multiple authors) indicate the contribution of the nominee.

If you are not a member of SIAM/OPSF and know a suitable candidate for the prize, but have difficulty finding two SIAM/OPSF members willing to sign the nomination, please contact one of the members of the selection committee for suggestions about names of members.

Topic #2 ----- OP-SF NET 19.4 ----- July 15, 2012

From: Michael Voit voit@mathematik.tu-dortmund.de

Subject: Munich Conference on Harmonic Analysis, Convolution Algebras, and Special Functions

There will be a conference on "Harmonic Analysis, Convolution Algebras, and Special Functions" at the Technische Universität München (Munich, Germany, Campus Garching), September 10 - 14, 2012.

The aim of the conference is to bring together a wide variety of researchers with an interest in Harmonic Analysis and Special Functions.

Confirmed plenary speakers will be Philippe Bougerol, Charles Dunkl, Herbert Heyer, Tom Koornwinder, Krzysztof Stempak, Ryszard Szwarc and Yuan Xu.

More details can be found on the home page

<http://www.helmholtz-muenchen.de/en/ibb/hacas2012>

We still have limited space for additional participants and talks.

If you are interested, you can register for the conference under the home page above.

This home page will be updated regularly.

The length of the talks will be between 25 and 50 minutes.

If you have any queries, please feel free to contact one of the organizers:

For general questions:

Rupert Lasser: lasser@helmholtz-muenchen.de

Margit Roesler: roesler@math.uni-paderborn.de

Michael Voit: voit@mathematik.tu-dortmund.de

For local organization (accommodation, local transportation):

Josef Obermaier: josef.obermaier@helmholtz-muenchen.de (until end of August)

Andreas Weinmann: andreas.weinmann@helmholtz-muenchen.de

Please feel free to distribute this mail also to other possibly interested colleagues.

Topic #3 ----- OP-SF NET 19.4 ----- July 15, 2012

From: Martin Muldoon muldoon@yorku.ca

Subject: Update on Patras Conference in memory of P. D. Siafarikas

Conference on Differential Equations, Difference Equations and Special
Functions

In memory of Professor Panayiotis D. Siafarikas
September 3 – 7, 2012, Patras, Greece.

This was announced in OP-SF NET 19.1, #4. There are some changes in the
list of speakers. Here is the updated list:

Plenary Speakers:

- Dimitar Dimitrov (Universidade Estadual Paulista, Brazil)
- John R. Graef (University of Tennessee at Chattanooga, U.S.A.)
- Alex Himonas (University of Notre Dame, USA)
- Javier Segura (University of Cantabria, Spain)

Invited Speakers:

- Árpád Baricz (Babeş-Bolyai University, Romania)
- Zuzana Došlá (Masaryk University, Czech Republic)
- Kathy Driver (University of Cape Town, South Africa)
- István Györi (University of Pannonia, Hungary)
- Mihály Pituk (University of Pannonia, Hungary)
- Luis Velazquez (University of Zaragoza, Spain)

Other talks will include “Professor Siafarikas and his work” by Evangelos Ifantis,
University of Patras.

For more information, see the conference web site:

<http://www.icddesf.upatras.gr/>

Topic #4 ----- OP-SF NET 19.4 ----- July 15, 2012

From: Paco Marcellán pacomarc@ing.uc3m.es

Subject: Passing of Pablo Gonzalez Vera

I regret to announce that Pablo Gonzalez Vera, Professor at Universidad de La
Laguna (ULL), Canary Islands, Spain, passed away early on the morning
Wednesday, July 11 at the age of 57.

Pablo was the leader of the team on rational orthogonal functions, numerical
integration and polynomial and rational approximation based at ULL. He was
coauthor (with A. Bultheel, E. Hendriksen and O. Njåstad) of the monograph
Orthogonal Rational Functions, Cambridge Monographs on Applied and

Computational Mathematics, Cambridge University Press 1999, the main reference work on this topic with 111 citations. Pablo is listed in MathSciNet as an author of 157 papers and monographs. He was the advisor of many PhD students in ULL and contributed to the growth and expansion of the above topics in Spain and abroad.

I shared not only his passion for Mathematics but also as a runner. In many meetings, Pablo was my companion in training for long distance races. He was a supporter of Barcelona FC and I recall a night in Trondheim (together with Leuven, one of Pablo's favourite places) enjoying a final game of the Spanish Cup won by Barcelona FC. Walter van Assche and Guillermo Lopez Lagomasino also witnessed Pablo's joy with this sport success. A bottle of Chablis was opened.... and finished to celebrate it.

Our sympathies go to Pablo's wife Rosa, to their children Laura and Jorge, and to all his friends.

Topic #5 ----- OP-SF NET 19.4 ----- July 15, 2012

From: Wolfram Koepf koepf@mathematik.uni-kassel.de
Subject: Computer Algebra & Orthogonal Polynomials

"CAOP - Computer Algebra & Orthogonal Polynomials" is a web tool for calculating formulas for orthogonal polynomials belonging to the Askey-Wilson scheme using Maple. With the present version which is available on the site <http://www.caop.org/> users can compute recurrence, differential and difference equations, without having Maple installed on their own computer. It is also possible to multiply the polynomial family by a scaling function, to change the argument and to give values to the parameters before doing the calculations.

All computations in CAOP are performed by calling procedures either from hsum15 ("Hypergeometric Summation") or qsum15 ("q-Hypergeometric Summation") by Wolfram Koepf, University of Kassel, which are part of the book Hypergeometric Summation, Vieweg, Braunschweig/Wiesbaden, 1998.

The implementation of CAOP was originally done by René Swarttouw as part of the Askey-Wilson Scheme Project performed at RIACA in Eindhoven in 2004. The present site <http://www.caop.org/> is a completely revised version of this project which has been done by Torsten Sprenger under supervision of Wolfram Koepf in 2012 and is maintained by Wolfram Koepf at the University of Kassel.

Topic #6 ----- OP-SF NET 19.4 ----- July 15, 2012

From: Nico Temme Nico.Temme@cwi.nl

Subject: Report on Santander Workshop on Numerical Software

Numerical Software: Design, Analysis and Verification,
Santander, Spain, July 4-6 2012.

Local organizers: Amparo Gil and Javier Segura of the
Universidad de Cantabria, Santander.

This workshop was attended by 21 participants and organized in association
with the 2012 meeting of the IFIP working group in Santander (2-3 July).

There were three lectures on software aspects for special functions. Annie Cuyt (Antwerp), presented a talk "Validated Evaluation of Special Mathematical Functions". It was an overview of the Antwerp project with Franky Backeljauw, Stefan Becuwe, Joris van Deun, and others, in which reliable and high-precision algorithms for a class of special functions are considered, by using continued fractions and series expansions.

Daniel Lozier (NIST) discussed a new NIST initiative (together with the Antwerp group and other academic colleagues) in his talk "DLMF tables: A New Source of Data for Mathematical Software Developers". The aim is to produce a system for generating on demand provably correct comparison values of mathematical functions. This system will be incorporated into a future release of the Digital Library of Mathematical Functions.

Together with Amparo Gil and Javier Segura, I presented a talk "Recent Software Developments for Special Functions in the Santander-Amsterdam Project", in which our way of working, our past activities (from 1997), and our future plans were discussed.

There was a cluster of talks on interval analysis, floating point arithmetic, and accurate computations by Nathalie Revol and Jean-Michel Muller (ENS Lyon, France), Javier Bruguera (Santiago de Compostela, Spain), and Philippe Langlois (Perpignan, France). Other lectures were on software aspects for differential equations, linear algebra, and finite element methods.

We look back at an interesting workshop, with nice extras organized by Amparo and Javier (guided visits to Santander, to the Altamira cave reproduction, to Santillana del Mar, the City Council reception) and the ever-present Spanish hospitality.

Topic #7 ----- OP-SF NET 19.4 ----- July 15, 2012

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, mostly during May and June 2012.

<http://arxiv.org/abs/1205.1453>

An asymptotic formula of the divergent bilateral basic hypergeometric series
Takeshi Morita

<http://arxiv.org/abs/1205.2103>

First order non-homogeneous q -difference equation for Stieltjes function characterizing q -orthogonal polynomials
J. Arvesú, A. Soria-Lorente

<http://arxiv.org/abs/1205.2458>

A method for deriving hypergeometric and related identities from the H^2 Hardy norm of conformal maps
Greg Markowsky

<http://arxiv.org/abs/1205.6706>

π and other formulae implied by hypergeometric summation theorems
Yong Sup Kim, Xiaoxia Wang, Arjun K. Rathie

<http://arxiv.org/abs/1206.0350>

A new generalization of generalized hypergeometric functions
Arjun K. Rathie

<http://arxiv.org/abs/1206.4544>

The Laplace equation for the exterior of the Hankel contour and novel identities for hypergeometric functions
A.S. Fokas, M.L. Glasser

<http://arxiv.org/abs/1205.5085>

Classical and Sobolev Orthogonality of the Nonclassical Jacobi Polynomials with Parameters $\alpha=\beta=-1$
Andrea Bruder, Lance Littlejohn

<http://arxiv.org/abs/1205.5860>

Quasi-Hermitian Hamiltonians associated with exceptional orthogonal polynomials
Bikashkali Midya

<http://arxiv.org/abs/1205.6353>
Coherent Orthogonal Polynomials
E Celeghini, Mariano A del Olmo

<http://arxiv.org/abs/1206.4737>
Plancherel_Rotach Asymptotics for q -Orthogonal Polynomials
Mourad E. H. Ismail, Xin Li

<http://arxiv.org/abs/1206.4785>
Spectral decomposition and matrix-valued orthogonal polynomials
Wolter Groenevelt, Mourad E. H. Ismail, Erik Koelink

<http://arxiv.org/abs/1206.4899>
The Kontorovich-Lebedev transform as a map between d -orthogonal polynomials
Ana F. Loureiro, S. Yakubovich

<http://arxiv.org/abs/1205.6547>
Hermite polynomials related to Genocchi, Euler and Bernstein polynomials
Serkan Araci, Jong Jin Seo, Mehmet Acikgoz

<http://arxiv.org/abs/1205.6590>
A note on the Frobenius-Euler numbers and polynomials associated with Bernstein polynomials
Serkan Araci, Mehmet Acikgoz

<http://arxiv.org/abs/1205.0260>
Littlewood Polynomials with Small L^4 Norm
Jonathan Jedwab, Daniel J. Katz, Kai-Uwe Schmidt

<http://arxiv.org/abs/1205.0305>
Branden's Conjectures on the Boros-Moll Polynomials
William Y. C. Chen, Donna Q. J. Dou, Arthur L. B. Yang

<http://arxiv.org/abs/1205.0593>
Macdonald polynomials as characters of Cherednik algebra modules
Stephen Griffeth

<http://arxiv.org/abs/1205.0846>
V. Markov's problem for monotone polynomials
Oleksiy Klurman

<http://arxiv.org/abs/1205.1933>
Power series with positive coefficients arising from the characteristic polynomials of positive matrices
Thomas J. Laffey, Raphael Loewy, Helena Šmigoc

<http://arxiv.org/abs/1205.4215>
The Bannai-Ito polynomials as Racah coefficients of the $sl_{-1}(2)$ algebra
Vincent X. Genest, Luc Vinet, Alexei Zhedanov

<http://arxiv.org/abs/1205.5383>

q-Chebyshev polynomials

Johann Cigler

<http://arxiv.org/abs/1205.5398>

Fibonacci Sequence, Recurrence Relations, Discrete Probability Distributions and Linear Convolution

Arulalan Rajan, R. Vittal Rao, Ashok Rao, H. S. Jamadagni

<http://arxiv.org/abs/1205.6242>

Polynomials with only real zeros and the Eulerian polynomials of type D

Shi-Mei Ma

<http://arxiv.org/abs/1206.6967>

Matrix Polynomials with Specified Eigenvalues

Michael Karow, Emre Mengi

<http://arxiv.org/abs/1206.2988>

Generalised Heine-Stieltjes and Van Vleck polynomials associated with degenerate, integrable BCS models

Ian Marquette, Jon Links

<http://arxiv.org/abs/1206.1526>

Fejér-Riesz factorizations and the structure of bivariate polynomials orthogonal on the bi-circle

Jeffrey S. Geronimo, Plamen Iliev

<http://arxiv.org/abs/1206.3495>

On Mittag-Leffler function and associated polynomials

D. Babusci, G. Dattoli, K. Górska

<http://arxiv.org/abs/1206.3632>

Locating the eigenvalues of matrix polynomials

Dario A. Bini, Vanni Noferini, Meisam Sharify

<http://arxiv.org/abs/1206.5371>

A note on Barker polynomials

Peter Borwein, Tamas Erdelyi

<http://arxiv.org/abs/1206.5433>

On the families of q-Euler numbers and polynomials and their applications

Serkan Araci, Mehmet Acikgoz, Hassan Jolany

<http://arxiv.org/abs/1205.7037>

-1 Krall-Jacobi Polynomials

Luc Vinet, Guo-Fu Yu, Alexei Zhedanov

- <http://arxiv.org/abs/1205.1112>
 A function Class of strictly positive definite and logarithmically completely monotonic functions related to the modified Bessel functions
 Jamel El Kamel, Khaled Mehrez
- <http://arxiv.org/abs/1206.4814>
 Log-concavity for series in reciprocal gamma functions and applications
 S. I. Kalmykov, D. B. Karp
- <http://arxiv.org/abs/1206.1992>
 Identities for the Hurwitz zeta function, Gamma function, and L-functions
 Michael O. Rubinstein
- <http://arxiv.org/abs/1205.1696>
 Galois theories for q -difference equations: comparison theorems
 Lucia Di Vizio, Charlotte Hardouin
- <http://arxiv.org/abs/1205.5455>
 How to prove Ramanujan's q -continued fractions
 Gaurav Bhatnagar
- <http://arxiv.org/abs/1205.0037>
 On Mordell-Tornheim sums and multiple zeta values
 David M. Bradley, Xia Zhou
- <http://arxiv.org/abs/1205.0303>
 A Central Limit Theorem for the Zeroes of the Zeta Function
 Brad Rodgers
- <http://arxiv.org/abs/1205.0609>
 Depth reduction of a class of Witten zeta functions
 David M. Bradley, Tianxin Cai, Xia Zhou
- <http://arxiv.org/abs/1205.0636>
 A Necessary Condition for a Nontrivial Zero of the Riemann Zeta Function via the Polylogarithmic Function
 Lazhar Fekih-Ahmed (ENIT)
- <http://arxiv.org/abs/1205.2161>
 On the higher derivatives of $Z(t)$ associated with the Riemann Zeta-Function
 Kaneaki Matsuoka
- <http://arxiv.org/abs/1206.1801>
 On an inequality for the Riemann zeta-function in the critical strip
 Sadegh Nazardonyavi, Semyon Yakubovich
- <http://arxiv.org/abs/1205.2101>
 Riemann-Hilbert Approach to the Six-Vertex Model
 Pavel Bleher, Karl Liechty

<http://arxiv.org/abs/1205.5604>

Nonlinear steepest descent and the numerical solution of Riemann-Hilbert problems

[Sheehan Olver](#), [Thomas Trogdon](#)

<http://arxiv.org/abs/1206.1166>

Integral and series transformations via Ramanujan's identities and Salem's type equivalences to the Riemann hypothesis

[Semyon Yakubovich](#)

<http://arxiv.org/abs/1206.2435>

Ramanujan's $\{_{-1}\psi_{-1}\}$ summation

[S. Ole Warnaar](#)

<http://arxiv.org/abs/1205.3485>

Generalized modular forms including the weak Maass forms, the Ramanujan's Theta functions and the Tau function

[Christian Pierre](#)

<http://arxiv.org/abs/1206.3981>

Ramanujan series upside-down

[Jesús Guillera](#), [Mathew Rogers](#)

<http://arxiv.org/abs/1206.4456>

Discrete Painlevé II equation over finite fields

[Masataka Kanki](#), [Jun Mada](#), [K. M. Tamizhmani](#), [Tetsuji Tokihiro](#)

<http://arxiv.org/abs/1206.5963>

Symmetries of quantum Lax equations for the Painlevé equations

[Hajime Nagoya](#), [Yasuhiko Yamada](#)

Topic #8 ----- OP-SF NET 19.4 ----- July 15, 2012

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 130 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, an electronic newsletter, and SIAM-OPSF (OP-SF Talk), a listserv, as a free public service; membership in SIAM is not required. OP-SF NET is transmitted periodically through a post to OP-SF Talk. The OP-SF Net Editors are Diego Dominici (dominicd@newpaltz.edu) and Martin Muldoon (muldoon@yorku.ca).

Back issues of OP-SF NET can be obtained at the WWW addresses:

<http://staff.science.uva.nl/~thk/opsfnet>
<http://math.nist.gov/~DLozier/OPSFnet/>

SIAM-OPSF (OP-SF Talk), which was recently moved to a SIAM server, facilitates communication among members and friends of the Activity Group. To subscribe or to see a link the archive of all messages, go to <http://lists.siam.org/mailman/listinfo/siam-OPSF> and follow the instructions under the sub-heading "Subscribing to SIAM-OPSF". To contribute an item to the discussion, send email to siam-opsf@siam.org. The moderators are Bonita Saunders (bonita.saunders@nist.gov) and Diego Dominici (dominicd@newpaltz.edu).

SIAM has several categories of membership, including low-cost categories for students and residents of developing countries. In addition, there is the possibility of reduced rate membership for the members of several societies with which SIAM has a reciprocity agreement; see

<http://www.siam.org/membership/individual/reciprocal.php>

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>

Topic #9 ----- OP-SF NET 19.4 ----- July 15, 2012

From: OP-SF NET Editors

Subject: Submitting contributions to OP-SF NET and SIAM-OPSF (OP-SF Talk)

To contribute a news item to OP-SF NET, send email to one of the OP-SF Editors dominicd@newpaltz.edu or muldoon@yorku.ca.

Contributions to OP-SF NET 19.5 should be sent by September 1, 2012.

OP-SF NET is an electronic newsletter 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, and job openings. OP-SF NET is transmitted periodically through a post to SIAM-OPSF (OP-SF Talk).

SIAM-OPSF (OP-SF Talk) is a listserv of the SIAM Activity Group on Special Functions and Orthogonal Polynomials, which facilitates communication among members, and friends of the Activity Group. See the previous Topic. To post an item to the listserv, send email to siam-opsf@siam.org.

WWW home page of this Activity Group:

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

Information on joining SIAM and this activity group: service@siam.org

The elected Officers of the Activity Group (2011-2013) are:

Chair: Francisco Marcellán

Vice Chair: Jeff Geronimo

Program Director: Diego Dominici

Secretary: Peter Clarkson

The appointed officers are:

Diego Dominici, OP-SF NET co-editor and OP-SF Talk moderator

Martin Muldoon, OP-SF NET co-editor

Bonita Saunders, Webmaster and OP-SF Talk moderator