OP-SF NET - Volume 19, Number 1 – January 15, 2012

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

February 20-24, 2012
Conference on Superintegrability, Exact Solvability, and Special Functions, Centro Internacional de Ciencias A.C., Cuernavaca, Mexico, 20-24 February 2012. 19.1 #1
http://www.cicc.unam.mx/activities/2012/superinte.html

May 17-19, 2012
International Conference on Applied Mathematics and Approximation Theory – AMAT 2012, Ankara, Turkey (Celebrating the 60th birthday of Professor George A. Anastassiou)
http://amat2012.etu.edu.tr/

May 29 – June 1, 2012
Hypergeometric series and their generalizations in algebra, geometry, number theory and physics, Paris, France. 19.1 #3
http://www.liafa.jussieu.fr/~lovejoy/hypergeometric.html
June 11 -15, 2012
International Symposium on Orthogonal Polynomials and Special Functions — a Complex Analytic Perspective, Copenhagen, Denmark
18.4 #2
http://www.matdat.life.ku.dk/~henrikp/osca2012/

June 25-29, 2012
AIM Workshop: Hypergeometric Motives, International Centre for Theoretical Physics, Trieste, Italy
http://aimath.org/ARCC/workshops/hypermotives.html

June 28 – July 3, 2012
Eighth International Conference on Mathematical Methods for Curves and Surfaces, Oslo, Norway
www.ifi.uio.no/~cagd/2012

July 4-6, 2012
Workshop "Numerical Software: Design, Analysis and Verification"
Santander, Spain
18.6 #1
http://personales.unican.es/segurajj/numsoft12

July 9-13, 2012
SIAM Annual Meeting, Minneapolis, Minnesota, USA
http://www.siam.org/meetings/an12/

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

September 19-25, 2012
10th International Conference of Numerical Analysis and Applied Mathematics, Kos, Greece
http://www.icnaam.org/

March 25-2, 2013
12th International Symposium on Orthogonal Polynomials, Special Functions and Applications (OPSFA-12), Sousse, Tunisia
19.1, #2
http://matematicas.uc3m.es/12opsfa

July 8-12, 2013
SIAM Annual Meeting, San Diego, California, USA (including OPSF “track”)
http://www.siam.org/meetings/an13/' 18.5 #3
An important class of physical systems has been called superintegrable because they admit more integrals of motion than degrees of freedom. These integrals form interesting nonabelian algebras, usually finitely generated polynomial ones. Historically the best known superintegrable systems were the Coulomb-Kepler system and the harmonic oscillator. Presently, infinite families of such systems are known and have applications in areas ranging from elementary particle physics to semiconductors and aeronautical engineering. Their mathematical applications mainly concern special function theory, and in particular orthogonal polynomials of continuous and discrete variables.

Further and updated information is available at the web site.
From: Walter Van Assche    Walter.VanAssche@wis.kuleuven.be  
Subject: OPSFA-12 in Tunisia

The next International Symposium on Orthogonal Polynomials, Special Functions and Applications (OPSFA-12) will be held in Tunisia, from March 25 to March 29, 2013. The meeting will be in the El Mouradi Palace Hotel, a 5-star hotel in Port El Kantaoui, Sousse, Tunisia. More information (organizing and scientific committee) can be found on http://matematicas.uc3m.es/12opsfa

The list of plenary speakers is still in preparation.

From: OP-SF NET Editors  
Subject: Paris conference on hypergeometric series

The following is from the web site: http://www.liafa.jussieu.fr/~lovejoy/hypergeometric.html

Hypergeometric series and their generalizations in algebra, geometry, number theory and physics
May 29 – June 1, 2012
Institut Henri Poincaré, Paris, France

Organizers: Jeremy Lovejoy (Paris), Tanguy Rivoal (Lyon)

We will have 19 one-hour lectures over 4 days. Here is the complete list of speakers:

George Andrews (Penn State)  
Frits Beukers (Utrecht)  
Hermann Boos (Wuppertal)  
Kathrin Bringmann (Cologne)  
Eric Delaygue (Grenoble)  
Lucia Di Vizio (Paris)  
Terry Gannon (Alberta)  
Kazuhiro Hikami (Kyushu)  
Frédéric Jouhet (Lyon)  
Christian Krattenthaler (Vienna)  
Laura Matusevich (Texas A&M)  
Robert Osburn (Dublin)
If you are planning to attend, please let one of the organizers know. There is no registration fee. Here is a list of (probable) participants: Jean-Paul Allouche, George Andrews, Jitendra Bajpai, Frits Beukers, Hermann Boos, Kathrin Bringmann, Simon Daguette, Eric Delaygue, Lucia DiVizio, Stéphane Fischler, Amanda Folsom, Terry Gannon, Kazuhiro Hikami, Marc Huttner, Frédéric Jouhet, Christian Krattenthaler, Odile Lecacheux, Ling Long, Jeremy Lovejoy, Laura Matusevich, Victor H. Moll, Moubinool Omarjee, Robert Osburn, Tanguy Rivoal, Julien Roques, Michael Schlosser, Alan Sokal, Alexander Varchenko, Masha Vlasenko, Michel Waldschmidt, Ole Warnaar, Tonghai Yang, Wadim Zudilin, Sander Zwegers

Talks will take place in the Amphithéâtre Hermite of the Institut Henri Poincaré. Maps and some suggestions for hotels are linked to the web site.

If you would like to attend the conference but are unable to do so without financial assistance, let the organizers know. Please specify how much funding you have from other sources and how much you think you need. We will have funding available and plan to allocate this starting February 1, 2012.

This conference is financed by the ANR projects IComb and Q-DIFF.

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**Topic #4  --------  OP-SF NET 19.1 -------- January 15, 2012**

From: OP-SF NET Editors
Subject: Patras Conference in memory of P. D. Siafarikas

Conference on Differential Equations, Difference Equations and Special Functions
In memory of Professor Panayiotis D. Siafarikas
SECOND ANNOUNCEMENT

On September 3 – 7, 2012 an international conference on differential, difference equations and special functions (ICDDSF, in short) will be held in Patras, Greece, at the Conference and Cultural Hall of the University of Patras. The conference is dedicated to the memory of Professor Panayiotis D. Siafarikas, who left so early in 2010.
The main aim of the conference is to bring together experts working in all areas (including numerical investigations and applications) of differential equations, difference equations and special functions and to promote research in these areas.

The conference is organized by the local Organizing Committee consisting of Evangelos K. Ifantis (University of Patras), Chrysoula G. Kokologiannaki (University of Patras) and Eugenia N. Petropoulou (University of Patras).

The scientific committee of the conference consists of
- Ondrej Došlý, (Masaryk University, Czech Republic)
- Evangelos Ifantis (University of Patras, Greece)
- Chrysoula G. Kokologiannaki (University of Patras, Greece)
- Andrea Laforgia, (University of Rome III, Italy)
- Lance Littlejohn (Baylor University, U.S.A.)
- Martin Muldoon (York University, Canada)
- Eugenia N. Petropoulou (University of Patras, Greece)

The scientific program will consist of plenary lectures (50 minutes talk + 10 minutes for questions), invited lectures (25 minutes talk + 5 minutes for questions) and short communications (15 minutes + 5 minutes for questions).

Plenary Speakers:
- Dimitar Dimitrov (Universidad Estadual Paulista, Brazil)
- John R. Graef (University of Tennessee at Chattanooga, U.S.A.)
- Nalini Joshi (University of Sydney, Australia)
- Roderick Wong (City University of Hong Kong, China).

Invited Speakers:
- Árpád Baricz (Babeş-Bolyai University, Romania)
- Zuzana Došlá (Masaryk University, Czech Republic)
- Kathy Driver (University of Cape Town, South Africa)
- István Győri (University of Pannonia, Hungary)
- Ilpo Laine (University of Eastern Finland (formerly University of Joensuu), Finland)
- Mihály Pituk (University of Pannonia, Hungary)
- Luis Velazquez (University of Zaragoza, Spain)

The city of Patras, with its friendly people, its numerous sightseeing and its diverse surroundings, has much to offer in order to create a nice and enjoyable atmosphere around the Conference.

We look forward to seeing you in Patras.

The Local Organizing Committee

CONTACT INFORMATION
INTERNATIONAL CONFERENCE ON DIFFERENTIAL EQUATIONS, DIFFERENCE EQUATIONS AND SPECIAL FUNCTIONS
Department of Mathematics (to C. G. Kokologiannaki)
Topic #5  ----------- OP-SF NET 19.1 ----------- January 15, 2012

From: Juri Rappoport jmrap@landau.ac.ru
Subject: Moisei Rappoport Centenary Conference

A one day conference "Mathematical and information technologies in economics and medicine" devoted to the 100-year-old memory of Moisei Rappoport (April 12 1912 - December 25 1996) is planned to be held in Moscow, Russian Federation, in April 2012. It is included in the plan of scientific events of the Russian Academy of Sciences for 2012. Exact information about the date of the conference will be available soon. The following topics are planned:

1. Computation of mathematical functions
2. Mathematical economics
3. Mathematical medicine
4. Tabulators and computer architecture
5. Automation in science management
6. Reminiscences

Moisei Rappoport was an author of a number of tables of mathematical functions including exponential functions and elliptic integrals. He also worked on a mechanization of their computation. OP-SF SIAM Activity Group Members and other scientists are invited to participate in this conference.

Juri Rappoport
Organizer of the Conference

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From: OP-SF NET Editors  
Subject: Herbert S. Wilf 1931-2012

Herbert Wilf died on January 7. Some idea of the scope of his contributions to mathematics including our areas of interest can be gleaned from:  
http://www.math.upenn.edu/History/obits/Herb_Wilf.html

George Andrews has provided us with the following tribute.

MY FRIEND, HERB WILF

Herb Wilf passed away on January 7, 2012. We who knew him will hugely miss him. He truly epitomized the phrase "Gentle Giant." He was wonderfully kind and generous. He was a grand and powerful mathematician, and he was probably the tallest mathematician I have known.

I first met him when I was a graduate student at the University of Pennsylvania in the early 1960's. He had just been hired at Penn and was one of the youngest faculty members in the department. He was very helpful to me and many, many others throughout his career. I became most aware of his work when I was editing P. A. MacMahon's Collected Papers. Herb's 1968 paper, A mechanical counting method and combinatorial applications, showed me what powerful insights Herb brought to bear in his work on combinatorics.

Of course, he became most famous for being "W" in the WZ method (joint work with Doron Zeilberger). Both Herb and Doron won the Steele Prize in 1998. This was certainly a wonderful achievement, but it was only one chapter in the extensive and exciting collection of Herb Wilf's papers.

Being a great mathematician is a great thing, and Herb was certainly that. Being a great human being is the greatest thing, and Herb was very much a great human being. We will all deeply miss this grand, many faceted, gentle giant.

George Andrews

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Topic #7  
-----------------  OP-SF NET 19.1  -----------------  January 15, 2012

From: Juri Rappoport jmrap@landau.ac.ru  
Subject: Report on 8th ISAAC Congress in Moscow

The 8th ISAAC Congress was held in Moscow, Russian Federation during the period August 22 - 27 2011. It was organized by the People’s Friendship University of Russia, the Division of Mathematics of the Russian Academy of Sciences, the Steklov Institute of Mathematics, and Moscow State University. It
took place at the People's Friendship University of Russia.

The website of the ISAAC Society can be found at http://www.mathisaac.org. The International Society for Analysis, its Applications and Computation (ISAAC) has been organizing the International ISAAC Congress biannually since 1997. The previous Congresses took place in the USA (Delaware 1997), Japan (Fukuoka 1999), Germany (Berlin 2001), Canada (Toronto 2003), Italy (Catania 2005), Turkey (Ankara 2007) and the United Kingdom (London 2009). The next ISAAC Congress is planned for Krakow, Poland in 2013.

The Co-Chairs of the Congress were prominent mathematicians: V.M. Filippov, Rector of Peoples' Friendship University of Russia, V.V. Kozlov, Director of the Steklov Institute of Mathematics, V.A. Sadovnichy, Rector of Moscow State University. There were sessions on real and complex analysis, approximation theory, asymptotic analysis, integral transforms and many other sessions related to special functions. About four hundred scientists from all continents participated in the Congress. Professor Michael Ruzhansky (Imperial College, London) was reelected as ISAAC President for two more years. Twenty participants from nine countries presented lectures in the "Integral transforms and reproducing kernels" session. Professor Daniel Alpay (Ben Gurion University of the Negev, Israel) presented a Congress plenary lecture as a session representative.

This Congress provided a good opportunity to visit and sightsee in Moscow. The OP-SF SIAM Activity Group Members and other scientists are invited to participate in future ISAAC Congresses.

Juri Rappoport
(Member of the International Advisory Board and Organizing Committee, Co-organiser of the section "Integral transforms and reproducing kernels"

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**Topic #8  ---------  OP-SF NET 19.1  ---------  January 15, 2012**

From: Roelof Koekoek  R.Koekoek@tudelft.nl
Subject: Diagrams of the Askey scheme and its q-analogue


Editors' note: The Askey scheme is reproduced on the next page:
ASKEY SCHEME
OF
HYPERGEOMETRIC
ORTHOGONAL POLYNOMIALS
From: OP-SF NET Editors  
Subject: New book on Mathematics of Signal Processing

From the publisher's web site:

The Mathematics of Signal Processing  
By Steven B. Damelin and Willard Miller, Jr.  
Paperback  
Series: Cambridge Texts in Applied Mathematics (No. 48)  
ISBN: 9781107601048  
Publication date: December 2011  
462 pages, 50 b/w illus. 265 exercises  
£40.00

Arising from courses taught by the authors, this largely self-contained treatment is ideal for mathematicians who are interested in applications or for students from applied fields who want to understand the mathematics behind their subject. Early chapters cover Fourier analysis, functional analysis, probability and linear algebra, all of which have been chosen to prepare the reader for the applications to come. The book includes rigorous proofs of core results in compressive sensing and wavelet convergence. Fundamental is the treatment of the linear system \( y = \Phi x \) in both finite and infinite dimensions. There are three possibilities: the system is determined, overdetermined or underdetermined, each with different aspects. The authors assume only basic familiarity with advanced calculus, linear algebra and matrix theory and modest familiarity with signal processing, so the book is accessible to students from the advanced undergraduate level. Many exercises are also included. For ordering information, see:  
http://www.cambridge.org/gb/knowledge/isbn/item6560879/?site_locale=en_GB

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From: OP-SF NET Editors  
Subject: New book on Asymptotics

Hadamard Expansions and Hyperasymptotic Evaluation: An Extension of the Method of Steepest Descents  
by R. B. Paris  
Cambridge University Press  
Series: Encyclopedia of Mathematics and its Applications (No. 141)  
- Hardback  
- ISBN: 9781107002586  
- Publication date: March 2011
From the publisher’s web site:
The author describes the recently developed theory of Hadamard expansions applied to the high-precision (hyperasymptotic) evaluation of Laplace and Laplace-type integrals. This brand new method builds on the well-known asymptotic method of steepest descents, of which the opening chapter gives a detailed account illustrated by a series of examples of increasing complexity. A discussion of uniformity problems associated with various coalescence phenomena, the Stokes phenomenon and hyperasymptotics of Laplace-type integrals follows. The remaining chapters deal with the Hadamard expansion of Laplace integrals, with and without saddle points. Problems of different types of saddle coalescence are also discussed. The text is illustrated with many numerical examples, which help the reader to understand the level of accuracy achievable. The author also considers applications to some important special functions. This book is ideal for graduate students and researchers working in asymptotics.

**Topic #11  ---------  OP-SF NET 19.1  ---------  January 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 November and December 2011.

http://arxiv.org/abs/1110.0870  
On bounds for solutions of monotonic first order difference-differential systems  
Javier Segura

Algebraic transformations of hypergeometric functions and automorphic forms on Shimura curves  
Fang-Ting Tu, Yifan Yang

http://arxiv.org/abs/1112.4230  
Kernel identities for van Diejen's $q$-difference operators and transformation formulas for multiple basic hypergeometric series  
Yasuho Masuda

http://arxiv.org/abs/1112.4981  
On a family of symmetric hypergeometric functions of several variables and their Euler type integral representation
Zhuangchu Luo, Hua Chen, Changgui Zhang
http://arxiv.org/abs/1112.5769
Hypergeometric functions as generalized Stieltjes transforms
Dmitry Karp, Elena Prilepkina

http://arxiv.org/abs/1111.2994
Sobolev orthogonal polynomials on a simplex
Rabia Aktas, Yuan Xu

http://arxiv.org/abs/1111.4019
Orthogonal polynomials on the unit circle with Verblunsky coefficients defined by the skew-shift
Helge Krueger

http://arxiv.org/abs/1111.4239
The limiting distribution of the maximal height of the outermost path of nonintersecting Brownian excursions and discrete Gaussian orthogonal polynomials
Karl Liechty

http://arxiv.org/abs/1111.5167
Orthogonal polynomials of the R-linear generalized minimal residual method
Marko Huhtanen, Allan Perämäki

http://arxiv.org/abs/1111.5658
Orthogonality relations for bivariate Bernstein-Szegő measures
Jeffrey S. Geronimo, Plamen Iliev, Greg Knese

http://arxiv.org/abs/1111.5968
A Littlewood-Paley type theorem on orthoprojectors onto mutually orthogonal subspaces of piecewise polynomial functions and its corollary
S. N. Kudryavtsev

http://arxiv.org/abs/1111.6348
A New Approach to Ratio Asymptotics for Orthogonal Polynomials
Brian Simanek

http://arxiv.org/abs/1111.6467
Exceptional orthogonal polynomials and new exactly solvable potentials in quantum mechanics
C. Quesne

http://arxiv.org/abs/1111.7038
Some Orthogonal Polynomials Arising from Coherent States
S. Twareque Ali, Mourad E. H. Ismail

http://arxiv.org/abs/1111.7262
Discrete spectral transformations of skew orthogonal polynomials and associated discrete integral systems
Hiroshi Miki, Hiroaki Goda, Satoshi Tsujimoto

http://arxiv.org/abs/1111.0515
Orthogonality relations and Cherednik identities for multivariable Baker-Akhiezer functions
Oleg Chalykh, Pavel Etingof

http://arxiv.org/abs/1111.1218
Bounds for extreme zeros of some classical orthogonal polynomials
K. Driver, K. Jordaan

http://arxiv.org/abs/1112.5713
Orthogonal Polynomials and $SS$-curves
E.A.Rakhmanov

http://arxiv.org/abs/1112.0970
Separation of variables and combinatorics of linearization coefficients of orthogonal polynomials
Mourad E. H. Ismail, Anisse Kasraoui, Jiang Zeng

http://arxiv.org/abs/1112.0988
Limit-Periodic Verblunsky Coefficients for Orthogonal Polynomials on the Unit Circle
Darren C. Ong

http://arxiv.org/abs/1111.3447
Asymptotic Properties of Extremal Polynomials Corresponding to Measures Supported on Analytic Regions
Brian Simanek

http://arxiv.org/abs/1111.3848
Generating functions for generalized Stirling type numbers, Array type polynomials, Eulerian type polynomials and their applications
Yilmaz Simsek

http://arxiv.org/abs/1111.4066
Determinantal and Permanental Representation of Generalized Fibonacci Polynomials
Adem Sahin, Kenan Kaygisiz

http://arxiv.org/abs/1111.4067
Determinant and Permanent of Hessenberg Matrix and Generalized Lucas Polynomials
Kenan Kaygisiz, Adem Sahin

http://arxiv.org/abs/1111.4849
The Properties Of Modified q-Bernstein Polynomials for Functions Of Several Variables With Their Generating Function And Interpolation Function
Mehmet Açikgöz, Serkan Araci, Hassan Jolany
http://arxiv.org/abs/1111.6112
Macdonald polynomials
Jasper V. Stokman

http://arxiv.org/abs/1111.6138
Solutions of Several Coupled Discrete Models in terms of Lame Polynomials of Arbitrary Order
Avinash Khare, Avadh Saxena, Apoorva Khare

http://arxiv.org/abs/1111.6785
Ordered Bell numbers, Hermite polynomials, Skew Young Tableaux, and Borel orbits
Mahir Bilen Can, Michael Joyce

http://arxiv.org/abs/1111.0601
Befriending Askey-Wilson polynomials
Paweł J. Szabłowski

http://arxiv.org/abs/1111.2209
Linear operators on polynomials preserving roots in open circular domains
Eugeny Melamud

http://arxiv.org/abs/1112.5902
A note on the modified q-Genocchi numbers and polynomials with weight (α,β) and their interpolation function at negative integers
Serkan Araci, Mehmet Açikgöz, Feng Qi, Hassan Jolany

http://arxiv.org/abs/1112.5956
On the limit of non-standard q-Racah polynomials
R. Alvarez-Nodarse, R. Sevinik-Adiguzel

http://arxiv.org/abs/1112.6019
On the Krall-type Askey-Wilson Polynomials
R. Alvarez-Nodarse, R. Sevinik-Adiguzel

http://arxiv.org/abs/1112.1119
Asymptotics for products of characteristic polynomials in classical $\beta$-Ensembles
Patrick Desrosiers, Dang-Zheng Liu

http://arxiv.org/abs/1112.2073
On Fourier integral transforms for $q$-Fibonacci and $q$-Lucas polynomials
Natig Atakishiyev, Pedro Franco, Decio Levi, Orlando Ragnisco

http://arxiv.org/abs/1112.2100
On The Hermite Based-Second Kind Genocchi Polynomials
Burak Kurt, Yilmaz Simsek
http://arxiv.org/abs/1112.2201
Computing the moment polynomials of the zeta function
Michael O. Rubinstein, Shuntaro Yamagishi

http://arxiv.org/abs/1112.5188
Macdonald polynomials in superspace: conjectural definition and positivity
conjectures
O. Blondeau-Fournier, P. Desrosiers, L. Lapointe, P. Mathieu

http://arxiv.org/abs/1112.5589
Meixner polynomials in several variables satisfying bispectral difference
equations
Plamen Iliev

http://arxiv.org/abs/1111.6143
Bessel Function Model for Corneal Topography
Wojciech Okrasiński, Łukasz Plociniczak

http://arxiv.org/abs/1111.0881
On evaluation of integrals involving Bessel functions
D. Babusci, G. Dattoli

http://arxiv.org/abs/1111.1018
Remarks on the paper: "Bounds for functions involving ratios of modified
Bessel functions"
Javier Segura

http://arxiv.org/abs/1112.0072
Numerical calculation of Bessel, Hankel and Airy functions
U. D. Jentschura, E. Lötstedt

http://arxiv.org/abs/1111.0250
On an iteration leading to a q-analogue of the Digamma function
Christian Berg (University of Copenhagen), Helle Bjerg Petersen (University of
Copenhagen)

http://arxiv.org/abs/1111.0925
The second shifted moment of the Riemann zeta function
Sandro Bettin

http://arxiv.org/abs/1112.4910
A note on the real part of the Riemann zeta-function
Juan Arias de Reyna, Richard P. Brent, Jan van de Lune

http://arxiv.org/abs/1112.6038
On large gaps between zeros of the Riemann zeta-function
Feng Shaoji, Wu Xiaosheng
http://arxiv.org/abs/1112.4830
Askey-Wilson Integral and its Generalizations
Paweł J. Szabłowski

http://arxiv.org/abs/1112.2323
Summation formulae for $\phi_3$-Watson type $_4\phi_3$-series
Chuanan Wei, Dianxuan Gong, Jianbo Li

http://arxiv.org/abs/1111.3531
The Riemann-Hilbert approach to obtain critical asymptotics for Hamiltonian perturbations of hyperbolic and elliptic systems
Tom Claeys

http://arxiv.org/abs/1111.6139
Heine, Hilbert, Pade, Riemann, and Stieltjes: a John Nuttall's work 25 years later
Andrei Martinez-Finkelshtein, Evgenii A. Rakhmanov, Sergey P. Suetin

http://arxiv.org/abs/1112.2282
Asymptotic expansions and fast computation of oscillatory Hilbert transforms
Haiyong Wang, Lun Zhang, Daan Huybrechs

http://arxiv.org/abs/1112.3848
The Hilbert series of N=1 SO(N_c) and Sp(N_c) SQCD, Painlevé VI and Integrable Systems
Estelle Basor, Yang Chen, Noppadol Mekareeya

http://arxiv.org/abs/1112.0389
The inversion formula of polylogarithms and Riemann-Hilbert Problem
Shu Oi, Kimio Ueno

http://arxiv.org/abs/1111.6987
Solution hierarchies for the Painleve IV equation
David Bermudez, David J. Fernandez C

http://arxiv.org/abs/1112.2916
On algebraic relations between solutions of a generic Painlevé equation
Ronnie Nagloo, Anand Pillay

Topic #12  ---------  OP-SF NET 19.1  ---------  January 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:

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 see the archive of all messages, go to http://lists.siam.org/mailman/listinfo/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


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 19.2 should be sent by March 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