

# OP-SF NET – Volume 23, Number 5 – September 15, 2016

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:

### November 16–17, 2016

Workshop on Orthogonal Polynomials and Special Functions,  
The H.C. Ørsted Institute (HCØ), University of Copenhagen, Denmark  
<http://www.math.ku.dk/~henrikp/w2016>

### November 28–December 02, 2016

International Conference on Mathematical Analysis and its Applications 2016,  
Department of Mathematics, Indian Institute of Technology Roorkee, Roorkee, India  
<http://www.iitr.ac.in/icmaa/2016/index.html>

### January 4–7, 2017

2017 Joint Mathematics Meetings, American Mathematical Society,  
Hyatt Regency Atlanta and Marriott Atlanta Marquis, Atlanta, Georgia, USA

*AMS Special Session on Orthogonal Polynomials,*

Organized by Doron Lubinsky and Jeff Geronimo,

[http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180\\_program\\_ss17.html](http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180_program_ss17.html)

*AMS Special Session on Symmetries, Integrability, and Beyond,*

Organized by Maria Clara Nucci and Sarah Post,

[http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180\\_program\\_ss61.html](http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180_program_ss61.html)

*AMS Special Session on Continued Fractions,*

Organized by James McLaughlin, Geremias Polanco and Nancy J. Wyshinski,

[http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180\\_program\\_ss38.html](http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180_program_ss38.html)

*AMS Special Session on Complex Analysis and Special Functions.,*

Organized by Brock Williams, Kendall Richards and Alex Solynin,

[http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180\\_program\\_ss40.html](http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180_program_ss40.html)

### March 20–24, 2017

Elliptic Hypergeometric Functions in Combinatorics, Integrable Systems and Physics

Erwin Schrödinger Institute, Vienna, Austria

<http://www.esi.ac.at/activities/events/2017/elliptic-hypergeometric-functions>

### June 26–30, 2017

OPSF–S7 Summer School on Orthogonal Polynomials and Special Functions,

University of Kent, Canterbury, UK

<http://www.kent.ac.uk/smsas/personal/opsfa>

### July 3–7, 2017

14<sup>th</sup> International Symposium on Orthogonal Polynomials, Special Functions and  
Applications (OPSFA14), University of Kent, Canterbury, UK

<http://www.kent.ac.uk/smsas/personal/opsfa>

### July 10–15, 2017

Computational Methods and Function Theory,

Maria Curie–Skłodowska University, Lublin, Poland

<http://cmft2017.umcs.lublin.pl>

### July 10–19, 2017

*Foundations of Computational Mathematics,*

Barcelona, Spain

<http://www.ub.edu/focm2017/index.html>

Topic #1 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Sarah Post ([spost@hawaii.edu](mailto:spost@hawaii.edu))

Subject: OPSF at the JMM: Special Sessions

Among the Special Sessions at the Joint Math Meetings in Atlanta, Georgia held from January 4–7, 2017, are sessions on: [Orthogonal Polynomials](#) organized by Doron Lubinsky and Jeff Geronimo, [Symmetries, Integrability and Beyond](#) organized by Clara Nucci

and Sarah Post, [Continued Fractions](#) organized by James McLaughlin, Geremías Polanco and Nancy J. Wyshinski, and [Complex Analysis and Special Functions](#) organized by Brock Williams, Kendall Richards and Alex Solynin.

The AMS Special Session on “Orthogonal Polynomials” will take place Wednesday January 4<sup>th</sup>, 2:15 pm–6:05 pm and Thursday January 5<sup>th</sup>, 8:00 am–11:50 am. Confirmed speakers include:

- Jorge Arvesu, Universidad Carlos III de Madrid
- Walter Van Assche, KU Leuven
- Jonathan Breuer, Hebrew University of Jerusalem
- Serguei Denissov, University of Wisconsin–Madison
- Maxim Derevyagin, The University of Mississippi
- Ulises Fidalgo, The University of Mississippi
- Jeff Geronimo, Georgia Institute of Technology
- Karl Liechty, DePaul University
- Milivoje Lukic, Rice University
- Abey López–García, University of South Alabama
- Erwin Miña–Díaz, University of Mississippi
- Ed Saff, Vanderbilt University
- Brian Simanek, Baylor University
- Barry Simon, California Institute of Technology
- Maxim Yattselev, Indiana University–Purdue University Indianapolis

The AMS Special Session on “Symmetries, Integrability and Beyond” will take place Friday January 5<sup>th</sup>, 8:00–11:50 am and 2:15–6:05 pm. Confirmed speakers include:

- Barbara Abraham–Shrauner, Washington University in St. Louis
- Adrián Mauricio Escobar Ruiz, Universidad Nacional Autónoma de México
- Vincent Genest, Massachusetts Institute of Technology
- Emily Gunawan, University of Minnesota
- Irina Kogan, North Carolina State University
- Wen–Xiu Ma, University of South Florida
- Willard Miller Jr., University of Minnesota
- Robert Milson, Dalhousie University
- Maria Clara Nucci, Università degli Studi di Perugia
- Sarah Post, University of Hawai‘i at Mānoa
- Konrad P. Schöbel, Friedrich–Schiller–Universität Jena
- Alexander Turbiner, Universidad Nacional Autónoma de México
- Luc Vinet, Université de Montréal and CRM
- Pavel Winternitz, Université de Montréal

A schedule including all special sessions can be found at:

[http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180\\_special.html](http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180_special.html).

Topic #2 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Howard Cohl ([Howard.Cohl@nist.gov](mailto:Howard.Cohl@nist.gov))  
Subject: OPSF at the JMM: AMS Invited Address by Barry Simon

Barry Simon, Caltech, will be giving an invited address at the Joint Math meetings January 4–7, 2017 in Atlanta, Georgia, USA (see also Topic #1). The title of his plenary lecture is “Spectral theory sum rules, Meromorphic Herglotz functions and large deviations” and it will be held on Wednesday, January 4<sup>th</sup> at 10:05 am.



Barry Simon recently received the 2016 AMS Leroy P. Steele Prize for Lifetime Achievement. His 70<sup>th</sup> birthday was recently celebrated with joint symposiums at the Fields Institute and the Centre de Recherches Mathématiques. Two feature articles, edited by Fritz Gesztesy, in Notices of the AMS chronicle his wide ranging contributions in mathematical physics, operator theory, and of course orthogonal polynomials. In particular, contributions by David Damanik and Andrei Martínez-Finkelshtein discuss Barry Simon’s fundamental advances in the theory of orthogonal polynomials.

The features are available here:

<http://www.ams.org/publications/journals/notices/201607/rnoti-p740.pdf>

<http://www.ams.org/publications/journals/notices/201608/rnoti-p878.pdf>

For more information about the JMM see:

[http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180\\_program.html](http://jointmathematicsmeetings.org/meetings/national/jmm2017/2180_program.html).

Topic #3 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Michael Schlosser ([michael.schlosser@univie.ac.at](mailto:michael.schlosser@univie.ac.at))  
Subject: Announcement: Workshop on Elliptic Hypergeometric Functions in Vienna

The workshop “Elliptic Hypergeometric Functions in Combinatorics, Integrable Systems and Physics” will be held at the Erwin Schrödinger Institute in Vienna, Austria, on March 20–24, 2017.

The organizers are:

- Christian Krattenthaler, University of Vienna
- Masatoshi Noumi, Kobe University
- Simon Ruijsenaars, University of Leeds
- Michael J. Schlosser, University of Vienna
- Vyacheslav P. Spiridonov, JINR, Dubna
- S. Ole Warnaar, University of Queensland

Elliptic hypergeometric functions are a relatively new class of special functions which first appeared 30 years ago implicitly as “elliptic  $6_j$  symbols” in work on the Yang–Baxter equa-

tion by E. Date, M. Jimbo, A. Kuniba, T. Miwa, and M. Okado. Since then, they have been shown to be related to various areas of mathematics, including integrable systems, combinatorics and mathematical physics. This workshop brings together leading experts on elliptic hypergeometric functions from different areas.

The topics of the workshop include:

- Elliptic integrable systems and elliptic Painlevé equations
- Univariate and multivariate elliptic hypergeometric series and biorthogonal functions
- Elliptic determinants and theta functions on root systems
- Combinatorics of elliptic hypergeometric functions
- Elliptic hypergeometric integrals in quantum field theory

We plan to have five introductory lectures delivered by (titles are tentative):

Fokko van de Bult, Hypergeometric functions and integrals  
Masatoshi Noumi, Discrete Painlevé equations and special functions  
Simon Ruijsenaars, Quantum integrable systems of elliptic Calogero–Moser type  
Michael J. Schlosser, Elliptic hypergeometric combinatorics  
Vyacheslav P. Spiridonov, Elliptic hypergeometric integrals: Bailey lemma,  
Yang–Baxter equation, and superconformal indices

Further, there will be talks by participants.

Attendance, restricted to 60 participants, is by invitation only.

If you wish to be invited, please contact [michael.schlosser@univie.ac.at](mailto:michael.schlosser@univie.ac.at).

For more information, see:

<http://www.esi.ac.at/activities/events/2017/elliptic-hypergeometric-functions>

Topic #4 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Peter Clarkson ([P.A.Clarkson@kent.ac.uk](mailto:P.A.Clarkson@kent.ac.uk))

Subject: OPSF–S7: Summer School on “Orthogonal Polynomials and Special Functions”

The next Summer School on “Orthogonal Polynomials and Special Functions” (OPSF–S7) will be held at the University of Kent, Canterbury, UK, June 26–30, 2017. There will be three lecture courses:

“Properties of Orthogonal Polynomials” by Kerstin Jordaan, University of Pretoria, RSA  
“Discrete Painlevé Equations” by Nalini Joshi, University of Sydney, Australia  
“Multiple Orthogonal Polynomials” by Walter Van Assche, KU Leuven, Belgium

These lecture courses will be supplemented by daily tutorial sessions and there will also be some guest lectures. Further information will be circulated later this year.

Topic #5 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Peter Clarkson ([P.A.Clarkson@kent.ac.uk](mailto:P.A.Clarkson@kent.ac.uk))

Subject: OPSFA-14: “Orthogonal Polynomials, Special Functions and Applications”

The next conference “Orthogonal Polynomials, Special Functions and Applications” (OPSFA-14) will be held at the University of Kent, Canterbury, UK, July 3–7, 2017. The following have agreed to give plenary lectures:

Jonathan Breuer, Hebrew University of Jerusalem, Israel  
Sylvie Corteel, CNRS, Paris, France  
David Gómez-Ullate, Universidad Complutense de Madrid, Spain  
Evelyne Hubert, INRIA, Sophia Antipolis, France  
Arieh Iserles, University of Cambridge, UK  
Alexander Its, Indiana University–Purdue University Indianapolis, USA  
Arno Kuijlaars, KU Leuven, Belgium  
Marta Mazzocco, Loughborough University, UK  
Peter Miller, University of Michigan, Ann Arbor, USA  
Margit Rösler, University of Paderborn, Germany  
Nina Snaith, University of Bristol, UK  
Jacek Szmigielski, University of Saskatchewan, Saskatoon, Canada

Additionally the winner of the Szegő prize will also give a plenary talk. Further information will be circulated later this year.

Topic #6 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Erik Koelink ([ekoelink@math.ru.nl](mailto:ekoelink@math.ru.nl)) and Jasper Stokman ([J.V.Stokman@uva.nl](mailto:J.V.Stokman@uva.nl))

Subject: Report on Dunkl 75<sup>th</sup> Birthday Conference in Paderborn, Germany

The conference “Dunkl operators, special functions and harmonic analysis” was held in Paderborn, Germany, August 8–12, 2016 to celebrate Charles Dunkl’s 75 birthday and his contributions to mathematics (Charles’s 75<sup>th</sup> birthday actually has taken place by the time you receive this newsletter). The title of the conference is very apt. Charles has done, and still does, major work in the field of harmonic analysis. He has become famous for the introduction of the Dunkl operators, which appeared in his paper in the Transactions of the AMS in 1989. Dunkl operators are commuting differential–reflection operators that generalise first order partial derivatives. Dunkl operators and their generalisations have been used to explain integrability of important classes of one–dimensional many body systems in mathematical



physics. They have led to the discovery of new Hecke algebras called Cherednik algebras, or double affine Hecke algebras. Cherednik algebras have a wide range of applications in harmonic analysis, enumerative combinatorics, algebraic geometry, multivariate special function theory, mathematical physics and recently also in low-dimensional topology. Charles's book, joint with Yuan Xu, "Orthogonal polynomials of several variables" highlights the role of Dunkl operators in the theory of multivariate orthogonal polynomials.

'Dunkl' has become an adjective to many mathematical structures, such as Dunkl-Laplacian operator, Dunkl-Dirac operator and Dunkl-Hermite expansion. MathSciNet lists 444 papers which have 'Dunkl' in the title! However, it should be stressed that Charles has also done a lot of successful work in hypergroups and harmonic analysis on finite groups, leading to various interesting results in orthogonal polynomials, such as e.g., an addition formula for  $q$ -Hahn polynomials. At the meeting Charles's achievements have been highlighted by the main organiser Margit Rösler, who also showed several pictures of Charles through the years.

There was a dense schedule of lectures, with plenary lectures in the morning and in the first half of the afternoon, and parallel lectures in the second half of the afternoon. The lectures showed the wide variety of mathematical developments involving Dunkl operators, or linked to other mathematical ideas of Charles. Dunkl operators and their role in multivariate special function theory and harmonic analysis were discussed by Yuan Xu, Léonard Gallardo, Bechir Amri, Sundaram Thangavelu, Vincent Genest, Hiroshi Oda, Siddhartha Sahi and various others. In many lectures, representation theory and mathematical physics played a role. The mathematical physics aspects were discussed in a variety of different settings by Simon Ruijsenaars, Peter Forrester, Jasper Stokman and Luc Vinet. The representation theoretic aspects were addressed by Bent Ørsted and Hiroshi Oda. Of course, double affine Hecke algebras appeared in various lectures, especially the ones by Stephen Griffeth, Monica Vazirani, Misha Feigin and Siddhartha Sahi. There were several lectures on special functions by Ruiming Zhang, Dennis Stanton, Mourad Ismail and Tom Koornwinder. There was also a very nice lecture by Yuri Berest on topological applications, as well as a very lively lecture on Dunkl operators and parking functions by Iain Gordon.

The social programme consisted of a conference dinner and an excursion to a nearby monastery, Schloß Corvey. The privately-owned monastery was the scene of a very interesting and long history. Many historic comments were also made in the many speeches at the conference dinner, where several people discussed their reminiscences on Charles and his work. There were speeches by Margit Rösler, Tom Koornwinder, who also read a letter by Eric Opdam, who could not attend the meeting, and several other participants. Naturally, Charles's speech was listened to attentively, and he recalled amongst other things how he always adapted to conventions of his coauthors, for instance as to actions from the left or from the right. So only his single-authored papers follow his own conventions. The speech at the conference dinner allowed Charles to present his lecture "Hypergeometry, the Torus, and Representations of the Symmetric Groups" in a purely mathematical way.

The organising committee for the meeting consisted of Margit Rösler, Michael Voit, Mourad Ismail, Tom Koornwinder, and Eric Opdam. It was clear that Margit Rösler was the driving force behind the meeting, and on behalf of all of the participants we thank her for all the work she has put into making the meeting a success.



Topic #7 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Tom Koornwinder ([T.H.Koornwinder@uva.nl](mailto:T.H.Koornwinder@uva.nl))

Subject: Review of “My search for Ramanujan” by Ken Ono and Amir D. Aczel

A review of the book “My Search for Ramanujan” by Ken Ono and Amir D. Aczel is featured in the September 2016 issue of Notices of the AMS.

Topic #8 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Kerstin Jordaan ([Kerstin.Jordaan@up.ac.za](mailto:Kerstin.Jordaan@up.ac.za))

Subject: Call for Nominations for the third Stephen Smale Prize

The third Stephen Smale Prize will be awarded at the meeting Foundations of Computational Mathematics (FoCM) in Barcelona, between July 10<sup>th</sup> – 19<sup>th</sup>, 2017.

See <http://www.ub.edu/focm2017>.

The Society for the Foundations of Computational Mathematics was created in the summer of 1995, following a month-long meeting in Park City, Utah, which was principally organized by Steve Smale, “to strengthen the unity of mathematics and numerical analysis, and to narrow the gap between pure and applied mathematics.” Smale’s vision has been the Society’s inspiration for all these years. The Journal “Foundations of Computational Mathematics” was created; several colloquia and research semesters were organized, and an international conference is held every three years. After fifteen years of existence, with an established and recognized position in the scientific community, the Society created the “Stephen Smale Prize” whose objective is to recognize the work of a young mathematician in the areas at the heart of the society’s interests and to help to promote his or her integration among the leaders of the scientific community. The first Stephen Smale Prize was awarded in 2011 to Snorre H. Christiansen; the recipients of the second Smale prize in 2014 were Carlos Beltran and Mark Braverman.

More information and prize rules can be found at

<http://www.ub.edu/focm2017/smaleprize.html>.

Nominations should be sent to the FoCM Co-Chair/Secretary Angela Kunoth

([kunoth@math.uni-koeln.de](mailto:kunoth@math.uni-koeln.de)) as a single pdf-file until October 9<sup>th</sup> 2016, 24:00 (GMT).

Topic #9 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Alfredo Deaño-Cabrera ([A.Deano-Cabrera@kent.ac.uk](mailto:A.Deano-Cabrera@kent.ac.uk))

Subject: Lectureship/Senior Lectureship with Immediate Deadline at U. of Kent, UK

The School of Mathematics, Statistics and Actuarial Science at the University of Kent is advertising for a lectureship/senior lectureship in Mathematics.

The deadline is September 18<sup>th</sup> and interviews will be held on Friday 7<sup>th</sup> October.

For job advertisement, see link [here](#).



Topic #10 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Walter Van Assche ([Walter.VanAssche@wis.kuleuven.be](mailto:Walter.VanAssche@wis.kuleuven.be))

Subject: Postdoctoral Positions with Immediate Deadline in Sydney, Australia

The Integrable Systems research group at the University of Sydney, Australia, is advertising three postdoctoral research positions.

Applications close on 21 September, 2016 at 11:30 pm.

You can see the full advertisement [here](#).

Topic #11 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Francisco (Paco) Marcellán ([pacomarc@ing.uc3m.es](mailto:pacomarc@ing.uc3m.es))

Subject: PhD grants Immediately Available with Paco Marcellán in Madrid, Spain

PhD grants in the research project entitled “Orthogonality, Approximation Theory and Applications in Mathematical Physics” (with reference number MTM2015-65888-C4-2-P) are available at the host institution [Departamento de Matemáticas de la Universidad Carlos III de Madrid](#).

The conditions are:

Duration: 4 years;

Tuition fees and predoctoral mobility: up to 6,250€;

PhD Students that defend their thesis before the 4-year period is over will be awarded a one-year postdoctoral contract.

Applications open on 13 September 2016 and the deadline for applications is: 27 September 2016 at 15h00.

All the information can be found [here](#) in Spanish.

Please contact Francisco (Paco) Marcellán ([pacomarc@ing.uc3m.es](mailto:pacomarc@ing.uc3m.es)) for more information.

Topic #12 ——— OP – SF Net 23.5 ——— September 15, 2016

From: Amit Apte ([apte@icts.res](mailto:apte@icts.res))

Subject: Tenure-track faculty positions at ICTS-TIFR, Bangalore, India

The International Centre for Theoretical Sciences (ICTS) of the Tata Institute of Fundamental Research (TIFR) is seeking applications from candidates with outstanding academic records for one or more faculty positions in Mathematics at junior and senior levels.

We encourage applicants with research experience in any area of mathematics. Examples of specific research areas that we are looking for include, but are not limited to, probability and stochastic analysis, geometry and topology, mathematical physics, dynamical systems and differential equations, scientific computing, applied mathematics in general, and theoretical computer science.

For more details and a link to the application form, please see  
<https://www.icts.res.in/faculty-mathematics>.

Topic #13 ——— OP – SF Net 23.5 ——— September 15, 2016

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 July and August 2016.

<http://arxiv.org/abs/1602.0862v2>

Jacobi polynomials, Bernstein-type inequalities and dispersion estimates for the discrete Laguerre operator

T. Koornwinder, A. Kostenko, G. Teschl

<http://arxiv.org/abs/1607.00039>

Koornwinder polynomials and the stationary multi-species asymmetric exclusion process with open boundaries

Luigi Cantini, Alexandr Garbali, Jan de Gier, Michael Wheeler

<http://arxiv.org/abs/1607.00427>

A unified approach of blow-up phenomena for two-dimensional singular Liouville systems

Luca Battaglia, Angela Pistoia

<http://arxiv.org/abs/1607.00606>

Cyclic tridiagonal pairs, higher order Onsager algebras and orthogonal polynomials

P. Baseilhac, A.M. Gainutdinov, T.T. Vu

<http://arxiv.org/abs/1607.00709>

New computations of the Riemann zeta function on the critical line

Jonathan W. Bober, Ghaith A. Hiary

<http://arxiv.org/abs/1607.00736>

Duality theorems of multiple zeta values with parameters

Chan-Liang Chung, Minking Eie

<http://arxiv.org/abs/1607.00930>

Orthogonal polynomial projection error measured in Sobolev norms in the unit ball

Leonardo E. Figueroa

<http://arxiv.org/abs/1607.00979>

Maximal operators of exotic and non-exotic Laguerre and other semigroups associated with classical orthogonal expansions

Adam Nowak, Peter Sjögren, Tomasz Z. Szarek

<http://arxiv.org/abs/1607.01069>

Demazure flags,  $q$ -Fibonacci polynomials and hypergeometric series  
Rekha Biswal, Vyjayanthi Chari, Deniz Kus

<http://arxiv.org/abs/1607.01098>

On the Fourier Transform of Bessel Functions over Complex Numbers – II: the General Case  
Zhi Qi

<http://arxiv.org/abs/1607.01351>

On the Tracy–Widom $_{\beta}$  beta distribution for  $\beta = 6$   
Tamara Grava, Andrey Kapaev, Alexander Its, Francesco Mezzadri

<http://arxiv.org/abs/1607.01445>

On Szegő's theorem for a nonclassical case  
Maxim Derevyagin, Brian Simanek

<http://arxiv.org/abs/1607.01497>

On Some Expansion Theorems Involving Confluent Hypergeometric  ${}_2F_2(x)$  Polynomial  
Yashoverdhan Vyas, Kalpana Fatawat

<http://arxiv.org/abs/1607.01500>

General proof for irrationality of infinite sums based on Fourier's proof  
Tomer Shushi

<http://arxiv.org/abs/1607.01542>

On transformation formulae for Srivastava–Daoust type  $q$ -hypergeometric series  
Yashoverdhan Vyas, Kalpana Fatawat

<http://arxiv.org/abs/1607.01571>

The kite integral to all orders in terms of elliptic polylogarithms  
Luise Adams, Christian Bogner, Armin Schweitzer, Stefan Weinzierl

<http://arxiv.org/abs/1607.01804>

A Motivated Rendition of the Ellenberg–Gijswijt Gorgeous proof that the Largest Subset of  $F_3^n$  with No Three–Term Arithmetic Progression is  $O(c^n)$ , with  $c = \sqrt[3]{(5589 + 891\sqrt{33})/8} = 2.75510461302363300022127\dots$   
Doron Zeilberger

<http://arxiv.org/abs/1607.01839>

Asymptotic profiles of solutions for structural damped wave equations  
Ryo Ikehata, Hiroshi Takeda

<http://arxiv.org/abs/1607.01937>

On the curious series related to the elliptic integrals  
Semyon Yakubovich

<http://arxiv.org/abs/1607.01962>

The CMV bispectral problem  
F.A. Grünbaum, L. Velázquez

<http://arxiv.org/abs/1607.01978>

Multiple zeta functions of Kaneko–Tsumura type and their values at positive integers  
Shuji Yamamoto

<http://arxiv.org/abs/1607.02057>

On the linearized log–KdV equation  
Dmitry E. Pelinovsky

<http://arxiv.org/abs/1607.02077>

First hitting time of the boundary of a wedge of angle  $\pi/4$  by a radial Dunkl process  
Nizar Demni

<http://arxiv.org/abs/1607.02100>

Relations between the generalized Bessel functions and the Janowski class  
S. Kanas, S. R. Mondal, A. D. Mohammed

<http://arxiv.org/abs/1607.02564>

A base– $b$  extension of the binomial coefficient  
Tanay Wakhare, Christophe Vignat

<http://arxiv.org/abs/1607.02701>

Algebraic formulas for the coefficients of mock theta functions and Weyl vectors of Borcherds products  
Jan Hendrik Bruinier, Markus Schwagenscheidt

<http://arxiv.org/abs/1607.02756>

Marichev–Saigo–Maeda fractional operator representations of generalized Struve function  
K.S. Nisar

<http://arxiv.org/abs/1607.02821>

Discontinuity in the asymptotic behavior of planar orthogonal polynomials under a perturbation of the Gaussian weight  
Seung–Yeop Lee, Meng Yang

<http://arxiv.org/abs/1607.03251>

Majorization results for zeros of orthogonal polynomials  
Walter Van Assche

<http://arxiv.org/abs/1607.03278>

Partition of unity interpolation using stable kernel–based techniques  
R. Cavoretto, S. De Marchi, A. De Rossi, E. Perracchione, G. Santin

<http://arxiv.org/abs/1607.03288>

Critical zeros of lacunary L–functions  
J.B. Conrey, H. Iwaniec

<http://arxiv.org/abs/1607.03746>

On Multi Poly–Bernoulli Polynomials  
Roberto B. Corcino, Hassan Jolany, Cristina B. Corcino, Takao Komatsu

<http://arxiv.org/abs/1607.03814>

The structure of Deitmar Schemes, II. Zeta functions and automorphism groups  
Manuel Merida–Angulo, Koen Thas

<http://arxiv.org/abs/1607.03820>

Generalized Laguerre Polynomials with Position–Dependent Effective Mass Visualized via Wigner’s Distribution Functions  
O Cherroudz, S–A Yahiaoui, M Bentaiba

<http://arxiv.org/abs/1607.03840>

Green’s function for chordal SLE curves  
Mohammad A. Rezaei, Dapeng Zhan

<http://arxiv.org/abs/1607.04101>

A Moser type inequality for Bessel Laplace equations and applications  
Xuan Thinh Duong, Zihua Guo, Ji Li, Dongyong Yang

<http://arxiv.org/abs/1607.04172>

Exact and approximate solutions of Schrödinger’s equation with hyperbolic double–well potentials  
Richard L. Hall, Nasser Saad

<http://arxiv.org/abs/1607.04444>

Parametric PDEs: Sparse or Low–Rank Approximations?  
Markus Bachmayr, Albert Cohen, Wolfgang Dahmen

<http://arxiv.org/abs/1607.04494>

Stokes Phenomena in Discrete Painlevé II  
Nalini Joshi, Christopher Lustrì, Steven Luu

<http://arxiv.org/abs/1607.04551>

Approach to a Proof of the Riemann Hypothesis by the Second Mean–Value Theorem of Calculus  
Alfred Wünsche

<http://arxiv.org/abs/1607.04693>

Generalized Bessel Recursion Relations  
M.L. Glasser

<http://arxiv.org/abs/1607.04727>

On Chebyshev type Inequalities using Generalized  $k$ –Fractional Integral Operator  
Vaijanth L. Chinchane

<http://arxiv.org/abs/1607.04742>

Special values of Gauss’s hypergeometric series derived from Appell’s series  $F_1$  with closed forms  
Akihito Ebisu

<http://arxiv.org/abs/1607.04852>

$p$ –adic Generalized Hypergeometric Equations from the Viewpoint of Arithmetic  $D$ –modules  
Kazuaki Miyatani

<http://arxiv.org/abs/1607.04880>

Integral transform of the Galue type Struve function

D.L. Suthar, S.D. Purohit, K.S. Nisar

<http://arxiv.org/abs/1607.04920>

On equilibrium shapes of charged flat drops

Cyrill B. Muratov, Matteo Novaga, Berardo Ruffini

<http://arxiv.org/abs/1607.05106>

Two Neumann Series Expansions for the Sine and Cosine Integrals

Chance Sanford

<http://arxiv.org/abs/1607.05168>

Evaluation of Spectral Zeta-Functions with the Renormalization Group

Stefan Boettcher, Shanshan Li

<http://arxiv.org/abs/1607.05215>

Algebraic Generating Functions for Gegenbauer Polynomials

Robert S. Maier

<http://arxiv.org/abs/1607.05314>

Evaluation of binomial double sums involving absolute values

Christian Krattenthaler, Carsten Schneider

<http://arxiv.org/abs/1607.05453>

Uniform bounds on locations of zeros of partial theta function

Vladimir Petrov Kostov

<http://arxiv.org/abs/1607.05629>

On the Cesàro average of the “Linnik numbers”

Marco Cantarini

<http://arxiv.org/abs/1607.05776>

Going Back to Neil Sloane’s FIRST LOVE (OEIS Sequence A435): On the Total Heights in Rooted Labeled Trees

Shalosh B. Ekhad, Doron Zeilberger

<http://arxiv.org/abs/1607.06053>

Dual addition formulas associated with dual product formulas

Tom H. Koornwinder

<http://arxiv.org/abs/1607.06196>

Report from the Open Problems Session at OPSFA13

Howard S. Cohl

<http://arxiv.org/abs/1607.06493>

Partition function on spheres: how (not) to use zeta function regularization

A. Monin

<http://arxiv.org/abs/1607.06545>

On two arithmetic theta lifts

Stephan Ehlen, Siddarth Sankaran

<http://arxiv.org/abs/1607.06897>

Efficient spectral sparse grid approximations for solving multi-dimensional forward backward SDEs

Yu Fu, Weidong Zhao, Tao Zhou

<http://arxiv.org/abs/1607.06967>

Supersymmetry of the quantum rotor

Vincent X. Genest, Luc Vinet, Guo-Fu Yu, Alexei Zhedanov

<http://arxiv.org/abs/1607.07050>

New Characterization of Appell polynomials

Abdelmejid Bayad, Takao Komatsu

<http://arxiv.org/abs/1607.07088>

The triple-zero Painlevé I transcendent

P.L. Robinson

<http://arxiv.org/abs/1607.07305>

Szegő-Widom asymptotics of Chebyshev Polynomials on Circular Arcs

Benjamin Eichinger

<http://arxiv.org/abs/1607.07349>

Integral representations for Horn's  $H_2$  function and Olsson's  $F_P$  function

Enno Diekema, Tom. H. Koornwinder

<http://arxiv.org/abs/1607.07831>

An elliptic Garnier system

Christopher M. Ormerod, Eric M. Rains

<http://arxiv.org/abs/1607.08003>

Constructing measures with identical moments

Alexey Kuznetsov

<http://arxiv.org/abs/1607.08269>

Computation of asymptotic expansions of turning point problems via Cauchy's theorem: Bessel functions

T. M. Dunster, A. Gil, J. Segura

<http://arxiv.org/abs/1607.08314>

A New Family of Nonnegative Sine Polynomials

Man Kam Kwong

<http://arxiv.org/abs/1607.08563>

Higher rank partial and false theta functions and representation theory

Thomas Creutzig, Antun Milas

<http://arxiv.org/abs/1607.08683>

Convergence of the Stochastic Six-Vertex Model to the ASEP

Amol Aggarwal



<http://arxiv.org/abs/1607.08684>

Phase Transitions in the ASEP and Stochastic Six–Vertex Model

Amol Aggarwal, Alexei Borodin

<http://arxiv.org/abs/1607.08716>

Dimension reduction techniques for the minimization of theta functions on lattices

Laurent Bétermin, Mircea Petrache

<http://arxiv.org/abs/1607.08746>

On the Green function and Poisson integrals of the Dunkl Laplacian

Piotr Graczyk, Tomasz Luks, Margit Rösler

<http://arxiv.org/abs/1607.08876>

The noncommutative geometry of elliptic difference equations

Eric M. Rains

<http://arxiv.org/abs/1608.00193>

New Weighted Partition Theorems with the Emphasis on the Smallest Part of Partitions

Alexander Berkovich, Ali Kemal Uncu

<http://arxiv.org/abs/1608.00795>

Alternating sums concerning multiplicative arithmetic functions

László Tóth

<http://arxiv.org/abs/1608.00958>

Fredholm determinant and Nekrasov sum representations of isomonodromic tau functions

P. Gavrylenko, O. Lisovyy

<http://arxiv.org/abs/1608.01010>

A new type of factorial series expansions and applications

O. Costin, R.D. Costin

<http://arxiv.org/abs/1608.01162>

The Wilson–Racah Quantum System

A. D. Alhaidari, T. J. Taiwo

<http://arxiv.org/abs/1608.01412>

Sum formulas of multiple zeta values with arguments are multiple of a positive integer

Kwang–Wu Chen, Chan–Liang Chung, Minking Eie

<http://arxiv.org/abs/1608.01438>

Three friendly walkers

Iwan Jensen

<http://arxiv.org/abs/1608.01467>

Large Deviations and Sum Rules for Spectral Theory – A Pedagogical Approach

Jonathan Breuer, Barry Simon, Ofer Zeitouni

<http://arxiv.org/abs/1608.01563>

On the enumeration of  $k$ -omino towers

Tricia Muldoon Brown

<http://arxiv.org/abs/1608.01564>

The ASEP and determinantal point processes

Alexei Borodin, Grigori Olshanski

<http://arxiv.org/abs/1608.01803>

Relative Asymptotics of Orthogonal Polynomials for Perturbed Measures

Edward B. Saff, Nikos Stylianopoulos

<http://arxiv.org/abs/1608.02077>

Virasoro constraints and polynomial recursion for the linear Hodge integrals

Shuai Guo, Gehao Wang

<http://arxiv.org/abs/1608.02139>

Homogeneous Painlevé II transcendents

P.L. Robinson

<http://arxiv.org/abs/1608.02245>

Solutions of the bi-confluent Heun equation in terms of the Hermite functions

T.A. Ishkhanyan, A.M. Ishkhanyan

<http://arxiv.org/abs/1608.02566>

$q$ -deformed Painlevé tau function and  $q$ -deformed conformal blocks

M. A. Bershtein, A. I. Shchekkin

<http://arxiv.org/abs/1608.02568>

Backlund transformation of Painlevé III( $D_8$ )  $\tau$  function

M. A. Bershtein, A. I. Shchekkin

<http://arxiv.org/abs/1608.02626>

Continuous and discrete fractional operators and some fractional functions

P. Njionou Sadjang, S. Mboutngam

<http://arxiv.org/abs/1608.02667>

A system of hypergeometric differential equations in two variables of rank 9

Jyoichi Kaneko, Keiji Matsumoto, Katsuyoshi Ohara

<http://arxiv.org/abs/1608.02805>

Zeros of random linear combinations of OPUC with complex Gaussian coefficients

Aaron M. Yeager

<http://arxiv.org/abs/1608.02867>

Remarks on the Wright's generalized Bessel kernel

Lun Zhang

<http://arxiv.org/abs/1608.03134>

Some unified integrals associated with generalized struve function

D.L. Suthar, S.D. Purohit, K.S. Nisar

<http://arxiv.org/abs/1608.03670>

New pathways and connections in Number Theory and Analysis motivated by two incorrect claims of Ramanujan

Bruce C. Berndt, Atul Dixit, Arindam Roy, Alexandru Zaharescu

<http://arxiv.org/abs/1608.03679>

Hamiltonian for the zeros of the Riemann zeta function

Carl M. Bender, Dorje C. Brody, Markus P. Müller

<http://arxiv.org/abs/1608.03873>

New Properties of the Zeros of Classical and Nonclassical Orthogonal Polynomials

Oksana Bihun

<http://arxiv.org/abs/1608.03876>

Fourier transform containing a pair of complex gamma functions with a monomial: Mathematical and physical applications

S-A Yahiaoui, O Cherroud, M Bentaiba

<http://arxiv.org/abs/1608.03927>

Four-dimensional Painlevé-type equations associated with ramified linear equations I: Matrix Painlevé systems

Hiroshi Kawakami

<http://arxiv.org/abs/1608.03959>

Novel Special Function Obtained from a Delay Differential Equation

Sachin Bhalekar, Jayvant Patade

<http://arxiv.org/abs/1608.04097>

Real eigenvalue statistics for products of asymmetric real Gaussian matrices

P. J. Forrester, J. R. Ipsen

<http://arxiv.org/abs/1608.04114>

Approximation by polynomials in Sobolev spaces with Jacobi weight

Yuan Xu

<http://arxiv.org/abs/1608.04148>

Explicit calculation of multi-fold contour integrals of certain ratios of Euler gamma functions. Part 1

Ivan Gonzalez, Bernd A. Kniehl, Igor Kondrashuk, Eduardo A. Notte-Cuello, Ivan Parra-Ferrada, Marko A. Rojas-Medar

<http://arxiv.org/abs/1608.04152>

Computation of the incomplete gamma function for negative values of the argument

A. Gil, D. Ruiz-Antolín, J. Segura, N. M. Temme

<http://arxiv.org/abs/1608.04315>

On some identities appearing in “Special values of the hypergeometric series” by Ebisu Akihito Ebisu

<http://arxiv.org/abs/1608.04513>

Asymptotics of orthogonal polynomials and the Painlevé transcendents

Dan Dai

<http://arxiv.org/abs/1608.04590>

The generic quantum superintegrable system on the sphere and Racah operators

Plamen Iliev

<http://arxiv.org/abs/1608.04638>

Finite size effects for spacing distributions in random matrix theory: circular ensembles and Riemann zeros

Folkmar Bornemann, Peter J. Forrester, Anthony Mays

<http://arxiv.org/abs/1608.04780>

The modulus of Whittaker functions

Hans Volkmer

<http://arxiv.org/abs/1608.04835>

Some relations of interpolated multiple zeta values

Zhonghua Li, Chen Qin

<http://arxiv.org/abs/1608.04858>

Symmetric identities of higher-order degenerate  $q$ -Bernoulli polynomials

Taekyun Kim, Hyuck-In Kwon

<http://arxiv.org/abs/1608.05354>

An algebraic interpretation of the  $q$ -Meixner polynomials

Julien Gaboriaud, Luc Vinet

<http://arxiv.org/abs/1608.05657>

Motzkin numbers and related sequences modulo powers of 2

Christian Krattenthaler, Thomas W. Müller

<http://arxiv.org/abs/1608.05697>

The number of  $\mathbb{F}_p$ -points on Dwork hypersurfaces and hypergeometric functions

Dermot McCarthy

<http://arxiv.org/abs/1608.05836>

Multivariate Delta Goncarov and Abel Polynomials

Rudolph Lorentz, Salvatore Tringali, Catherine H. Yan

<http://arxiv.org/abs/1608.05870>

Propagation of singular behavior for Gaussian perturbations of random matrices

Tom Claeys, Arno B.J. Kuijlaars, Karl Liechty, Dong Wang

<http://arxiv.org/abs/1608.06032>

The MacMahon  $q$ -Catalan is convex

Tewodros Amdeberhan

<http://arxiv.org/abs/1608.06161>

Elliptic Hypergeometric Functions

Hjalmar Rosengren

<http://arxiv.org/abs/1608.06185>

An alternative representation of the Viète's formula for pi by Chebyshev polynomials of the first kind

S. M. Abrarov, B. M. Quine

<http://arxiv.org/abs/1608.06384>

Hard-edge asymptotics of the Jacobi growth process

Mark Cerenzia, Jeffrey Kuan

<http://arxiv.org/abs/1608.06454>

Comment on a paper “Watson – like Formulae for terminating  ${}_3F_2$  series” by Chu and Zhou  
Arjun K. Rathie

<http://arxiv.org/abs/1608.06555>

Globally hyperbolic moment model of arbitrary order for one-dimensional special relativistic Boltzmann equation

Yangyu Kuang, Huazhong Tang

<http://arxiv.org/abs/1608.06737>

The Riemann Hypothesis: A Qualitative Characterization of the Nontrivial Zeros of the Riemann Zeta Function Using Polylogarithms

Lazhar Fekih-Ahmed

<http://arxiv.org/abs/1608.06790>

Segal-Bargmann-Fock modules of monogenic functions

Dixan Peña Peña, Irene Sabadini, Franciscus Sommen

<http://arxiv.org/abs/1608.06976>

Bernoulli-Dunkl and Apostol-Euler-Dunkl polynomials with applications to series involving zeros of Bessel functions

Óscar Ciaurri, Antonio J. Durán, Mario Pérez, Juan L. Varona

<http://arxiv.org/abs/1608.07265>

Degenerations of Ruijsenaars-van Diejen operator and  $q$ -Painlevé equations

Kouichi Takemura

<http://arxiv.org/abs/1608.07474>

A Picard family of curves and hypergeometric functions over finite fields I

Yoh Takizawa

<http://arxiv.org/abs/1608.07842>

Jacobi's triple product, mock theta functions, and the  $q$ -bracket

Robert Schneider

<http://arxiv.org/abs/1608.08073>

On approximation of ultraspherical polynomials in the oscillatory region

Iliia Krasikov

<http://arxiv.org/abs/1608.08079>

Orthogonal polynomials on the unit circle: Verblunsky coefficients with some restrictions imposed on a pair of related real sequences

Cleonice F. Bracciali, Jairo S. Silva, A. Sri Ranga, Daniel O. Veronese

<http://arxiv.org/abs/1608.08588>

Higher-depth mock modular forms arising in Gromov-Witten Theory of elliptic orbifolds

Kathrin Bringmann, Jonas Kaszian, Larry Rolin

<http://arxiv.org/abs/1608.08712>

Nonintersecting Brownian bridges between reflecting or absorbing walls

Karl Liechty, Dong Wang

<http://arxiv.org/abs/1608.08784>

Inequalities for the exponential remainder of the Taylor series

S.M. Sitnik

Topic #14 ——— OP – SF Net 23.5 ——— September 15, 2016

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 155 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](mailto: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 Howard Cohl ([howard.cohl@nist.gov](mailto:howard.cohl@nist.gov)), Kerstin Jordaan ([kerstin.jordaan@up.ac.za](mailto:kerstin.jordaan@up.ac.za)), and Sarah Post ([spost@hawaii.edu](mailto:spost@hawaii.edu)).

Back issues of OP–SF NET can be obtained at the websites:

<https://staff.fnwi.uva.nl/t.h.koornwinder/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, 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 e-mail to [siam-opsf@siam.org](mailto:siam-opsf@siam.org). The moderators are Bonita Saunders ([bonita.saunders@nist.gov](mailto:bonita.saunders@nist.gov)) and Diego Dominici ([dominid@newpaltz.edu](mailto:dominid@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:

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## Topic #15 ——— OP – SF Net 23.5 ——— September 15, 2016

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 e–mail to one of the OP–SF Editors [howard.cohl@nist.gov](mailto:howard.cohl@nist.gov), [kerstin.jordaan@up.ac.za](mailto:kerstin.jordaan@up.ac.za), or [spost@hawaii.edu](mailto:spost@hawaii.edu).

Contributions to OP–SF NET 23.6 should be sent by November 1, 2016.

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 as well as news about new appointments, promotions, research visitors, awards and prizes. 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 e–mail to [siam-opsf@siam.org](mailto: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](mailto:service@siam.org)

The elected Officers of the Activity Group (2014–2016) are:

- Walter Van Assche, Chair
- Jeff Geronimo, Vice Chair
- Diego Dominici, Program Director
- Yuan Xu, Secretary

The appointed officers are:

- Howard Cohl, OP–SF NET co–editor
- Kerstin Jordaan, OP–SF NET co–editor
- Sarah Post, OP–SF NET co–editor
- Diego Dominici, OP–SF Talk moderator
- Bonita Saunders, Webmaster and OP–SF Talk moderator

### Thought of the month

“The fragile line between confidence and arrogance is humility.”

Norman E. Bowie & Meg Schnieder, *Business Ethics for Dummies*, Wiley Publishing Inc, Indianapolis, Indiana, 2011.