

OP-SF NET – Volume 31, Number 6 – November 15, 2024

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

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

OP-SF Net is distributed to OPSF Activity Group members and non-members alike through the OP-SF Talk listserv.

If you are interested in subscribing to the Newsletter and/or OP-SF Talk, or if you would like to submit a topic to the Newsletter or a contribution to OP-SF Talk, please send an email to the OP-SF Net Editors.

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Topics:

1. Announcement: ORTHONET Winter 2024
2. Second Announcement: Constructive Functions 2025
3. Announcement: Upcoming OPSF SIAG elections
4. Memories of Ian G. Macdonald
5. Preprints in arXiv.org
6. Submitting contributions to OP-SF NET and SIAM-OPSF (OP-SF Talk)
7. Thought of the Month by **Askey**

Calendar of Events:

December 9–13, 2024

Joint meeting of the NZMS, AustMS and AMS
Auckland, New Zealand

Special Session on *Special Functions, q-Series and Beyond*
Organized by Howard Cohl, S. Ole Warnaar, Nicholas Witte

<https://ms-meet-2024.blogs.auckland.ac.nz/special-sessions-descriptions/>

December 16–20, 2024

ORTHONET WINTER School and Meeting
Universidad Complutense de Madrid, Spain

https://www.ucm.es/manuel_manas/orthonet-winter-2024

May 19–22, 2025

Constructive Functions 2025

Celebrating Ed Saff's 80th birthday

in conjunction with the 37th Shanks Lecture by Doron Lubinsky
Vanderbilt University, Nashville, Tennessee, USA

<https://my.vanderbilt.edu/constructivefunctions2025/>

June 23– 28, 2025

Combinatorics around the q -Onsager algebra

A celebration of the 70th birthday of Paul Terwilliger
Kranjska Gora, Slovenia
<https://conferences.famnit.upr.si/event/15/overview>

July 2–5, 2025

Third International Conference: Constructive Mathematical Analysis
Selcuk University, Konya, Turkey
<https://iccma.selcuk.edu.tr>

Topic #1 ——— OP – SF Net 31.6 ——— November 15, 2024

From: Paco Marcellán (pacomarc@ing.uc3m.es)
Subject: Announcement: ORTHONET Winter 2024

The ORTHONET school and ORTHONET meeting will hold in Madrid in the Faculty of Physics, Universidad Complutense de Madrid, in the period December 16–19 and December 19–20, 2024, respectively.

The Organizing Committee is constituted by Oscar Ciaurri (Universidad de la Rioja), Manuel Mañas (Universidad Complutense de Madrid) and Francisco Marcellán (Universidad Carlos III de Madrid).

The lecturers of the school are María Ángeles García Ferrero (Instituto de Ciencias Matemáticas, IC-MAT), Andrei Martínez–Finkelshtein (Universidad de Almería/ Baylor University) and Walter Van Assche (Katholieke Universiteit Leuven). They will deliver four–two hour lectures each on Exceptional Orthogonal polynomials and Darboux Transformations, Logarithmic Potential Theory and Multiple Orthogonal Polynomials–Theory and Applications, respectively.

For more information about these two events:

https://www.ucm.es/manuel_manas/orthonet-winter-2024

About the ORTHONET Network:

The ORTHONET Network brings together researchers focused on orthogonal polynomials and special functions, exploring their deep connections with fields such as approximation theory, operator theory, number theory, information theory, Fourier series, numerical analysis, integrable systems and probability. This cross–disciplinary approach extends beyond pure mathematics, finding applications in mathematical physics, science, and technology.

A core goal of ORTHONET is to foster collaboration within the Spanish scientific community, uniting those who specialize in orthogonality and its applications. Another priority is to facilitate the transfer of expertise to other scientific and technological fields where orthogonality offers untapped potential.

The ORTHONET network is supported by the project RED2022–134580–T, as part of the National Program aimed at advancing scientific and technical research and promoting its transfer in Spain. This initiative is supported by the 2021–2023 State Plan for Scientific, Technical, and Innovation Research, under the Ministry of Science, Innovation, and Universities of Spain.

Topic #2 ——— OP – SF Net 31.6 ——— November 15, 2024

From: Ryan Matzke (ryan.w.matzke@vanderbilt.edu)
Subject: Second Announcement: Constructive Functions 2025

Constructive Functions 2025
in conjunction with the 37th Annual Shanks Lecture
Celebrating Ed Saff's 80th birthday
Nashville, Tennessee
May 19–22, 2025
constructivefunctions2025@gmail.com

We are pleased to send out the second announcement for the Constructive Functions 2025 conference. If you would like to organize a minisymposium or contribute a talk, please visit: <https://my.vanderbilt.edu/constructivefunctions2025/>

Important deadlines:

- Minisymposium Proposals Deadline: December 6, 2024
- Abstract Submission Deadline: March 14, 2025

The 37th Shanks Lecture will be delivered by Professor Doron Lubinsky (Georgia Institute of Technology). The meeting will also provide an excellent opportunity to celebrate Professor Ed Saff's 80th birthday.

The prestigious Shanks Lecture Series is organized annually by the Department of Mathematics in honor of Baylis and Olivia Shanks. The late Professor Baylis Shanks was chairman of the Department from 1956 through 1969. A list of previous Shanks Conferences and Lecturers can be found [here](#).

Students, early career researchers, women, and other minorities are especially encouraged to attend this conference. We are currently applying for funding from the NSF and are anticipating being able to offer some support for such participants.

Invited Speakers:

- Doron Lubinsky, Shanks Lecturer, Georgia Institute of Technology, USA
- Peter Dragnev, Purdue University – Fort Wayne, USA
- Arno Kuijlaars, KU Leuven, Belgium
- Ana Loureiro, University of Kent, UK
- Andrei Martínez–Finkelshtein, Baylor University, USA
- Ana Matos, Universite de Lille, France
- Jill Pipher, Brown University, USA
- Sylvia Serfaty, Courant Institute of Mathematical Sciences, USA
- Ian Sloan, University of New South Wales, Australia
- Eitan Tadmor, University of Maryland, USA
- Nick Trefethen, Harvard University, USA

Organizing Committee:

- Stephen Gardiner, University College Dublin
- Doug Hardin, Vanderbilt University
- Liudmyla Kryvonos, Vanderbilt University
- Juliette LeBlond, INRIA Sophia Antipolis Méditerranée
- Doron Lubinsky, Georgia Institute of Technology

- Ryan Matzke, Vanderbilt University
- Igor Pritsker, Oklahoma State University
- Mihai Putinar, University California Santa Barbara
- Maya Stoyanova, Sofia University
- Robert Womersley, University of New South Wales
- Maxim Yattselev, IUPUI

Scientific Committee:

- Laurent Baratchart, INRIA Sophia Antipolis Méditerranée
- Sergiy Borodachov, Towson University
- Peter Boyvalenkov, Bulgarian Academy of Sciences
- Kathy Driver, University of Cape Town
- Guillermo López Lagomasino, Universidad Carlos III de Madrid
- Xin Li, University of Central Florida
- Igor Shevchuk, Taras Shevchenko National University of Kyiv
- Nikos Stylianopoulos, University of Cyprus
- Natalia Zorii, National Academy of Sciences of Ukraine

We hope to see you in May!

Best wishes,
The Constructive Functions 2025 Organizing Committee

Topic #3 OP – SF Net 31.6 November 15, 2024

From: Peter Clarkson (P.A.Clarkson@kent.ac.uk)
Subject: Announcement: Upcoming OPSF SIAG elections

The SIAM Activity Group on Special Functions and Orthogonal Polynomials (SIAG/OPSF) will be holding elections shortly. The position of Chair, Program Director and Secretary will be up for election. Due to special circumstances, for the current election, the election of someone to fill the Vice Chair position will not be held.

The previous elected Officers of the Activity Group (2020–2022) were:
Peter Alan Clarkson, Chair
Luc Vinet, Vice Chair
Andrei Martínez–Finkelshtein, Program Director
Teresa E. Pérez, Secretary and SIAM Engage (SIAG/OPSF) moderator

We look forward to our renewed collaboration with SIAM.

Topic #4 OP – SF Net 31.6 November 15, 2024

From: Tom Koornwinder (thkmath@xs4all.nl)
Subject: Memories of Ian G. Macdonald

Memories of Ian G. Macdonald

Tom Koornwinder

Ian Grant Macdonald passed away on August 8, 2023 at the age of 94. His death got little publicity. Only a few months later the mathematical community became aware that this great mathematician had left us. Ian Macdonald has done very important work in our field of orthogonal polynomials and special functions:

- Analogues of Jacobi's triple product identity associated with all affine root systems [1].
- Constant term conjectures [2].
- Macdonald polynomials: analogues in several variables of continuous q -ultraspherical polynomials (manuscript in 1987, published in [3, Ch.VI]).
- Macdonald polynomials: analogues in several variables of continuous q -Jacobi polynomials (manuscripts in 1987, 1988, published in [4]).



Macdonald giving a lecture in Amsterdam on January 11, 2002.

In the exciting late eighties of the previous century not only Macdonald's new polynomials were introduced, but also the Heckman–Opdam polynomials, the Dunkl operator and quantum groups, and all these interacted with each other.

As for myself, I was happy to point out to Macdonald that the duality property of continuous q -ultraspherical polynomials could also be settled for his polynomials [3, §VI.6], and to improve his more variable generalization of continuous q -ultraspherical polynomials to such a generalization of Askey–Wilson polynomials [5].

My Dutch colleagues Gert Heckman and Eric Opdam, then in Leiden, developed in those days the Jacobi polynomials associated with root systems [6], [7], [8], in which they interacted a lot with Macdonald.

Altogether Macdonald has been very influential for Dutch mathematics. In 2002 he received an honorary doctorate from the University of Amsterdam.

Together with Heckman and Opdam I wrote a paper Memories of Ian G. Macdonald, <https://arxiv.org/abs/2410.07882>, in which one can read about our contacts with Macdonald in more detail.

Bibliography

- [1] I. G. Macdonald, Affine root systems and Dedekind's η -function, Invent. Math. **15** (1972), 91–143.
- [2] I. G. Macdonald, Some conjectures for root systems, SIAM J. Math. Anal. **13** (1982), 988–1007.
- [3] I. G. Macdonald, Symmetric Functions and Hall Polynomials, Second edition, Clarendon Press, Oxford, 1995.
- [4] I. G. Macdonald, Orthogonal polynomials associated with root systems, Sém. Lothar. Combin. **45** (2000), B45a.

- [5] T. H. Koornwinder, Askey–Wilson polynomials for root systems of type BC, Contemp. Math. **138** (1992), 189–204.
- [6] G. J. Heckman and E. M. Opdam, Root systems and hypergeometric functions I, II, Compositio Math. **64** (1987), 329–352 (H&O), 353–373 (H).
- [7] E. M. Opdam, Root systems and hypergeometric functions III, IV, Compositio Math. **67** (1988), 21–49, 191–209.
- [8] E. M. Opdam, Some applications of hypergeometric shift operators, Invent. Math. **98** (1989), 1–18.

Topic #5 ——— OP – SF Net 31.6 ——— November 15, 2024

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 September and October 2024. This list has been separated into two categories.

OP–SF Net Subscriber E–Prints

<https://arxiv.org/abs/2404.14303>

Orthogonal Laurent polynomials of two real variables
Ruymán Cruz–Barroso, Lidia Fernández

<http://arxiv.org/abs/2409.00261>

A partial–sum deformation for a family of orthogonal polynomials
Erik Koelink, Pablo Román, Wadim Zudilin

<http://arxiv.org/abs/2409.02536>

Approximations of generalized Bernstein functions
Stamatis Koumandos, Henrik Laurberg Pedersen

<http://arxiv.org/abs/2409.02623>

Chebyshev polynomials related to Jacobi weights
Jacob S. Christiansen, Olof Rubin

<http://arxiv.org/abs/2409.02656>

Classification of exceptional Jacobi polynomials
Maria Angeles Garcia–Ferrero, David Gómez–Ullate, Robert Milson

<http://arxiv.org/abs/2409.02717>

Universality theorems for zeros of random real polynomials with fixed coefficients
Matthew C. King, Ashvin Swaminathan

<http://arxiv.org/abs/2409.03357>

Constrained mock–Chebyshev least squares approximation for Hermite interpolation
Francesco Dell’Accio, Francisco Marcellán, Federico Nudo

<http://arxiv.org/abs/2409.03428>

Sums of two squares and the tau–function: Ramanujan’s trail
Bruce C. Berndt, Pieter Moree

<http://arxiv.org/abs/2409.04215>

A Method of Fundamental Solutions for Large-Scale 3D Elastance and Mobility Problems
Anna Broms, Alex H. Barnett, Anna-Karin Tornberg

<http://arxiv.org/abs/2409.04502>

On Polar Jacobi Polynomials
Roberto S. Costas-Santos

<http://arxiv.org/abs/2409.08442>

Notes on $2D \mathbb{F}_p$ -Selberg integrals
Alexander Varchenko

<http://arxiv.org/abs/2409.08559>

On the number of irreducible factors with a given multiplicity in function fields
Sourabhashis Das, Ertan Elma, Wentang Kuo, Yu-Ru Liu

<http://arxiv.org/abs/2409.08785>

A stacky p -adic Riemann-Hilbert correspondence on Hitchin-small locus
Yudong Liu, Chenglong Ma, Xiecheng Nie, Xiaoyu Qu, Yupeng Wang

<http://arxiv.org/abs/2409.09405>

On the product of the extreme zeros of Laguerre polynomials
K. Castillo

<http://arxiv.org/abs/2409.09657>

On the Satake correspondence for the equivariant quantum differential equations and qKZ difference equations of Grassmannians
Giordano Cotti, Alexander Varchenko

<http://arxiv.org/abs/2409.09803>

Mesoscopic Universality for Circular Orthogonal Polynomial Ensembles
Jonathan Breuer, Daniel Ofner

<http://arxiv.org/abs/2409.11344>

Generalized Bell polynomials
Antonio J. Durán

<http://arxiv.org/abs/2409.13874>

Higher level q -multiple zeta values with applications to quasimodular forms and partitions
William Craig

<http://arxiv.org/abs/2409.14512>

An explicit Wishart moment formula for the product of two disjoint principal minors
Christian Genest, Frédéric Ouimet, Donald Richards

<http://arxiv.org/abs/2409.14825>

$\bar{\partial}$ -problem for focusing nonlinear Schrödinger equation and soliton shielding
Marco Bertola, Tamara Grava, Giuseppe Orsatti

<http://arxiv.org/abs/2409.14834>

On string functions of the generalized parafermionic theories, mock theta functions, and false theta functions

Nikolay Borozenets, Eric T. Mortenson

<http://arxiv.org/abs/2409.14994>

Exactly solvable Schrödinger operators related to the confluent equation

Jan Dereziński, Jinyeop Lee

<http://arxiv.org/abs/2409.16254>

Classical discrete multiple orthogonal polynomials: hypergeometric and integral representations

Amílcar Branquinho, Juan E. F. Díaz, Ana Foulquié–Moreno, Manuel Mañas, Thomas Wolfs

<http://arxiv.org/abs/2409.16857>

R_{II} type three term relations for bivariate polynomials orthogonal with respect to varying weights

Cleonice F. Bracciali, Antonia M. Delgado, Lidia Fernández, Teresa E. Pérez

<http://arxiv.org/abs/2409.17305>

Uniform bounds, zero separation and monotonicity for the regular Coulomb wave functions

Seok–Young Chung

<http://arxiv.org/abs/2409.17818>

Precision Asymptotics for Partitions Featuring False–Indefinite Theta Functions

Kathrin Bringmann, William Craig, Caner Nazaroglu

<http://arxiv.org/abs/2409.18045>

Necessary and sufficient conditions for universality limits

Benjamin Eichinger, Milivoje Lukić, Harald Woracek

<http://arxiv.org/abs/2409.18445>

Trace inequality with Bessel convolution

Mouna Chegaar, Á. P. Horváth

<http://arxiv.org/abs/2409.19644>

On positive Jacobi matrices with compact inverses

Pavel Šťovíček, Grzegorz Świdorski

<http://arxiv.org/abs/2410.00246>

Bilateral discrete and continuous orthogonality relations in the q^{-1} –symmetric Askey scheme

Howard S. Cohl, Hans Volkmer

<http://arxiv.org/abs/2410.01009>

On multiplicative Jacobi polynomials and function approximation through multiplicative series

Edinson Fuentes, Luis E. Garza, Fabián Velázquez C.

<http://arxiv.org/abs/2410.01199>

Some identities on degenerate trigonometric functions

Taekyun Kim, Dae San kim

<http://arxiv.org/abs/2410.03002>

Simplified uniform asymptotic expansions for associated Legendre and conical functions

T. M. Dunster

<http://arxiv.org/abs/2410.04506>

Voronoi summation formulas, oscillations of Riesz sums, and Ramanujan–Guinand and Cohen type identities

Shashank Charge, Atul Dixit

<http://arxiv.org/abs/2410.04894>

Smoothing of the higher-order Stokes phenomenon

Chris J. Howls, John R. King, Gergő Nemes, Adri B. Olde Daalhuis

<http://arxiv.org/abs/2410.05003>

m -step rational extensions of the trigonometric Darboux–Pöschl–Teller potential based on para–Jacobi polynomials

Yves Grandati, Christiane Quesne

<http://arxiv.org/abs/2410.07181>

Some fractional integral and derivative formulas revisited

Juan Luis Gonzales–Santander, Francesco Mainardi

<http://arxiv.org/abs/2410.07703>

Time-domain direct sampling method for inverse electromagnetic scattering with a single incident source

Chen Geng, Minghui Song, Xianchao Wang, Yuliang Wang

<http://arxiv.org/abs/2410.07862>

Dynamical and invariance algebras of the d -dimensional Dunkl–Coulomb problem

Christiane Quesne

<http://arxiv.org/abs/2410.07882>

Memories of Ian G. Macdonald

Gert Heckman, Tom Koornwinder, Eric Opdam

<http://arxiv.org/abs/2410.10405>

An electrostatic model for the roots of discrete classical orthogonal polynomials

Joaquín F. Sánchez–Lara

<http://arxiv.org/abs/2410.11318>

Sign changes of Fourier coefficients for holomorphic eta-quotients

Kathrin Bringmann, Guoniu Han, Bernhard Heim, Ben Kane

<http://arxiv.org/abs/2410.12094>

Laurent Multiple Orthogonal Polynomials on the Unit Circle

Rostyslav Kozhan, Marcus Vaktnäs

<http://arxiv.org/abs/2410.14068>

q -Hypergeometric orthogonal polynomials with $q = -1$

Luis Verde–Star

<http://arxiv.org/abs/2410.14190>

On two-color partitions with odd smallest part

George E. Andrews, Mohamed El Bachraoui

<http://arxiv.org/abs/2410.14856>

Meta algebras and biorthogonal rational functions: the q -Hahn case

Pierre–Antoine Bernard, Abderahmane Bouziane, Samuel Pellerin, Simone Têtu, Satoshi Tsujimoto, Luc Vinet, Meri Zaimi, Alexei Zhedanov

<http://arxiv.org/abs/2410.15363>

Bidiagonal factorization of recurrence banded matrices in mixed multiple orthogonality
Amílcar Branquinho, Juan E. F. Díaz, Ana Foulquié–Moreno, Hélder Lima, Manuel Mañas

<http://arxiv.org/abs/2410.17998>

Estimating the Spectral Moments of the Kernel Integral Operator from Finite Sample Matrices
Chanwoo Chun, SueYeon Chung, Daniel D. Lee

<http://arxiv.org/abs/2410.19186>

Ramanujan–Fine integrals for level 10
Shaun Cooper, Timothy Huber, Jeffery Opoku

<http://arxiv.org/abs/2410.20758>

Regularized determinant formulas for the zeta functions of 3–dimensional Riemannian foliated dynamical systems
Jesús A. Álvarez López, Junhyeong Kim, Masanori Morishita

<http://arxiv.org/abs/2410.21905>

Elliptic Functions
Shaun Cooper

<http://arxiv.org/abs/2410.22440>

The non–linear steepest descent approach to the singular asymptotics of the sinh–Gordon reduction of the Painlevé III equation
Alexander R. Its, Kenta Miyahara, Maxim L. Yattselev

<http://arxiv.org/abs/2410.22850>

Nearly cosine series and generalized trigonometric functions
A. Curcio, G. Dattoli, E. Di Palma, P. Natalini, P. E. Ricci

Other Relevant OP–SF E–Prints

<http://arxiv.org/abs/2409.00117>

Pointwise estimates for the fundamental solutions of higher order Schrödinger equations in odd dimensions II: high dimensional case
Han Cheng, Shanlin Huang, Tianxiao Huang, Quan Zheng

<http://arxiv.org/abs/2409.00406>

Casting more light in the shadows: dual Somos–5 sequences
J. W. E. Harrow, A. N. W. Hone

<http://arxiv.org/abs/2409.00519>

Blow–up solutions for the steady state of the Keller–Segel system on Riemann surfaces
Zhengni Hu, Thomas Bartsch, Mohameden Ahmedou

<http://arxiv.org/abs/2409.00849>

The open ASEP with light particles
Dominik Schmid, Zongrui Yang

<http://arxiv.org/abs/2409.00888>

M –functions and screw functions originating from Goldbach’s problem and zeros of the Riemann zeta function

Kohji Matsumoto, Masatoshi Suzuki

<http://arxiv.org/abs/2409.01041>

Extending the science fiction and the Loehr–Warrington formula
Donghyun Kim, Jaeseong Oh

<http://arxiv.org/abs/2409.01350>

Zeta elements for elliptic curves and applications
Ashay Burungale, Christopher Skinner, Ye Tian, Xin Wan

<http://arxiv.org/abs/2409.01505>

The Cauchy problem for the Degasperis–Procesi Equation: Painlevé Asymptotics in Transition Zones
Zhaoyu Wang, Xuan Zhou, Engui Fan

<http://arxiv.org/abs/2409.01558>

Parity statistics on restricted permutations and the Catalan–Schett polynomials
Zhicong Lin, Jing Liu, Sherry H. F. Yan

<http://arxiv.org/abs/2409.01860>

Double–coset zeta functions for groups acting on trees
Bianca Marchionna

<http://arxiv.org/abs/2409.02106>

Criteria for bounds on the reciprocal zeta derivative at zeta zeros
Gordon Chavez

<http://arxiv.org/abs/2409.02232>

On the m th–order Affine Pólya–Szegő Principle
Dylan Langharst, Michael Roysdon, Yiming Zhao

<http://arxiv.org/abs/2409.02338>

Distribution of local signs of modular forms and murmurations of Fourier coefficients
Kimball Martin

<http://arxiv.org/abs/2409.02539>

Generation Model of a Spatially Limited Vortex in a Stratified Unstable Atmosphere
O. G. Onishchenko, S. N. Artekha, F. Z. Feygin, N. M. Astafieva

<http://arxiv.org/abs/2409.03313>

On the asymptotics of real solutions for the Painlevé I equation
Wen–Gao Long, Jun Xia

<http://arxiv.org/abs/2409.03355>

Finite Bivariate Biorthogonal M–Konhauser Polynomials
Esra GÜldoğan Lekesiz, Bayram Çekim, Mehmet Ali Özarslan

<http://arxiv.org/abs/2409.03382>

Strong Converse Inequalities for Bernstein Polynomials with Explicit Asymptotic Constants
José A. Adell, Daniel Cárdenas–Morales

<http://arxiv.org/abs/2409.03517>

On constructing zeta elements for Shimura varieties
Syed Waqar Ali Shah

<http://arxiv.org/abs/2409.03687>

On moments of the derivative of CUE characteristic polynomials and the Riemann zeta function
Nick Simm, Fei Wei

<http://arxiv.org/abs/2409.04045>

Extending a result of Carlitz and McConnel to polynomials which are not permutations
Bence Csajbók

<http://arxiv.org/abs/2409.04258>

L -Series for Vector-Valued Weakly Holomorphic Modular Forms and Converse Theorems
Subong Lim, Wissam Raji

<http://arxiv.org/abs/2409.04337>

Principal frequency of clamped plates on $\text{RCD}(0, N)$ spaces: sharpness, rigidity and stability
Alexandru Kristály, Andrea Mondino

<http://arxiv.org/abs/2409.04548>

Shift operators and momentum-space conformal field theory
Francesca Caloro

<http://arxiv.org/abs/2409.04595>

On a Solution to the Dirac Equation with a Triangular Potential Well
Renebeth B. Payod, Vasil A. Saroka

<http://arxiv.org/abs/2409.04753>

Equivariant scaling asymptotics for Poisson and Szegő kernels on Grauert tube boundaries
Simone Gallivanone, Roberto Paoletti

<http://arxiv.org/abs/2409.05625>

Zeta functions enumerating subforms of quadratic forms
Daejun Kim, Seok Hyeong Lee, Seungjai Lee

<http://arxiv.org/abs/2409.05761>

Asymptotics for smooth numbers in short intervals
Khalid Younis

<http://arxiv.org/abs/2409.05942>

Zero Flux Localization: Magic Revealed
Alireza Parhizkar, Victor Galitski

<http://arxiv.org/abs/2409.06254>

Functional equation for Mellin transform of Fourier series associated with modular forms
Omprakash Atale

<http://arxiv.org/abs/2409.06304>

On Finite Mellin Transform via Ramanujan's Master Theorem
Omprakash Atale

<http://arxiv.org/abs/2409.06546>

A family of integrals related to values of the Riemann zeta function
Rahul Kumar, Paul Levrie, Jean-Christophe Pain, Victor Scharaschkin

<http://arxiv.org/abs/2409.06760>

Basics of Multiple Polyexponential Integrals

Gleb Aminov, Paolo Arnaudo

<http://arxiv.org/abs/2409.06836>

On the limit law of the superdiffusive elephant random walk

Hélène Guérin, Lucile Laulin, Kilian Raschel, Thomas Simon

<http://arxiv.org/abs/2409.06878>

Deformed Homogeneous (s, t) -Rogers-Szegő Polynomials and the Deformed (s, t) -Exponential Operator $e_{s,t}(yT_\alpha D_{s,t}, v)$

Ronald Orozco López

<http://arxiv.org/abs/2409.06922>

The spectral ζ -function for quasi-regular Sturm-Liouville operators

Guglielmo Fucci, Mateusz Piorkowski, Jonathan Stanfill

<http://arxiv.org/abs/2409.07810>

Approximation of the Hilbert Transform on the unit circle

Luisa Fermo, Valerio Loi

<http://arxiv.org/abs/2409.07866>

ODE/IM correspondence in the semiclassical limit: Large degree asymptotics of the spectral determinants for the ground state potential

Gabriele Degano

<http://arxiv.org/abs/2409.08085>

Infinite log-concavity and higher order Turán inequality for the sequences of Speyer's g -polynomial of uniform matroids

James J. Y. Zhao

<http://arxiv.org/abs/2409.08179>

$SU(1, 1) \times SU(2)$ approach and the Mandel parameter to the Hamiltonian of two oscillators with weak coupling

J. C. Vega, D. Ojeda-Guillén, R. D. Mota

<http://arxiv.org/abs/2409.08992>

Diffusion crossover from/to q -statistics to/from Boltzmann-Gibbs statistics in the classical inertial α -XY ferromagnet

Antonio Rodríguez, Constantino Tsallis

<http://arxiv.org/abs/2409.09005>

Dunkl and Cherednik operators

Oleg Chalykh

<http://arxiv.org/abs/2409.09384>

On the k -th Tjurina number of weighted homogeneous singularities

Chuangqiang Hu, Stephen S.-T. Yau, Huaiqing Zuo

<http://arxiv.org/abs/2409.09632>

High-Order Oscillation-Eliminating Hermite WENO Method for Hyperbolic Conservation Laws

Chuan Fan, Kailiang Wu

<http://arxiv.org/abs/2409.10051>

On zero-density estimates for Beurling zeta functions
Frederik Broucke

<http://arxiv.org/abs/2409.10092>

Hypertranscendence and q -difference equations over elliptic functionfields
Ehud de Shalit, Charlotte Hardouin, Julien Roques

<http://arxiv.org/abs/2409.10513>

KPZ equation from ASEP plus general speed-change drift
Kevin Yang

<http://arxiv.org/abs/2409.10629>

Approximation by Fourier sums on the classes of generalized Poisson integrals
Anatoly Serdyuk, Tetiana Stepaniuk

<http://arxiv.org/abs/2409.10833>

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Viktor V. Savchuk, Maryna V. Savchuk

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New identities for the family of Zeta function by using distributional representations
Asghar Qadir, Aamina Jamshaid

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B. Hamil, B. C. Lütfüoğlu, M. Merad

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On a class of Rainville type generating functions for classical orthogonal polynomials

Mohammed Brahim Zahaf, Mohammed Mesk

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Cezar Lupu, Vlad Matei

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Masazumi Honda, Ryusuke Jinno, Koki Tokeshi

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On the coefficients of the Zeta-function's L -polynomial for algebraic function fields over finite constant fields
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A variant of the Linnik–Sprindzuk theorem for simple zeros of Dirichlet L -functions
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Some properties of the quadrinomials $p(z) = 1 + \kappa(z + z^{N-1}) + z^N$ and $q(z) = 1 + \kappa(z - z^{N-1}) - z^N$
Dmitriy Dmitrishin, Alexander Stokolos

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A remark on modular equations involving Rogers–Ramanujan continued fraction via 5–dissections
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Distribution of rational points of an algebraic surface over finite fields
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Integral Basis for quartic Kummer extensions over \mathbb{Z}
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A partial converse to the Riemann–Lebesgue lemma for Bessel–Fourier series of order zero
Ryan L. Acosta Babb

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Giulio Bonelli, Pavlo Gavrylenko, Ideal Majtara, Alessandro Tanzini

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Jean-Christophe Pain

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Deng-Shan Wang, Dinghao Zhu, Xiaodong Zhu

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Neea Palojärvi, Aleksander Simonič

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Xinyu Mu, Shulin Lyu

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Integral representations of the Riemann zeta function of odd argument
Jean-Christophe Pain

<http://arxiv.org/abs/2410.23648>

On certain identities between Fourier transforms of weighted orbital integrals on infinitesimal symmetric spaces of Guo–Jacquet

Huajie Li

<http://arxiv.org/abs/2410.23787>

An integral representation of Catalan numbers using the Féaux formula

Jean–Christophe Pain

Topic #6 ——— OP – SF Net 31.6 ——— November 15, 2024

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, or spost@hawaii.edu.

Contributions to OP–SF NET 32.1 should be sent by January 1, 2025.

OP–SF NET is the electronic newsletter of the SIAM Activity Group on Special Functions and Orthogonal Polynomials (SIAG/OPSF). 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 OP–SF Talk which is currently managed and moderated by Howard Cohl (howard.cohl@nist.gov). Anyone wishing to be included in the mailing list (SIAG/OPSF members and non–members alike) should send an email expressing interest to him. Bonita Saunders also posts the Newsletter through SIAM Engage (SIAG/OPSF) which is received by all SIAG/OPSF members.

OP–SF Talk is a listserv associated with SIAG/OPSF which facilitates communication among members, non–members and friends of the Activity Group. To post an item to the listserv, send e–mail to howard.cohl@nist.gov.

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 (2020–2022*) are:

Peter Alan Clarkson, Chair

Luc Vinet, Vice Chair

Andrei Martínez–Finkelshtein, Program Director

Teresa E. Pérez, Secretary and SIAM Engage (SIAG/OPSF) moderator

The appointed officers are:

Howard Cohl, OP–SF NET co–editor

Sarah Post, OP–SF NET co–editor

Bonita Saunders, Webmaster and SIAM Engage (SIAG/OPSF) moderator

*As of the date of the publication of OP–SF NET 31.6, the SIAG/OPSF elections have not occurred.

Topic #7 ——— OP – SF Net 31.6 ——— November 15, 2024

From: OP–SF Net Editors

Subject: Thought of the Month by **Askey**

“Part of the secret of success in studying and using special functions is to try to remember exactly what is necessary, and nothing more.”

Richard Askey (1933–2019), *Orthogonal Polynomials and Special Functions*, Society for Industrial and Applied Mathematics, Philadelphia, 1975, p. 9.

Contributed by **Paul A. Martin**.