

OP-SF NET – Volume 22, Number 5 – September 15, 2015

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:

September 28–30, 2015

International Conference on Analysis, Applications and Computations, In
Memory of Lee Lorch, Fields Institute, Toronto, Canada

<http://www.fields.utoronto.ca/programs/scientific/15-16/analysisapplications>

October 4–30, 2015

International Workshop and Latin-American School on Foundations of Complexity,
Nonadditive Entropies and Nonextensive Statistical Mechanics, Rio de Janeiro, Brazil

<http://www.cbpf.br/~complex>

October 9–11, 2015

Midwestern Workshop on Asymptotic Analysis,
Indiana University, Bloomington, Indiana, USA

<http://math.iupui.edu/~maxyatts/workshop>

January 6–9, 2016

2016 Joint Mathematics Meetings, American Mathematical Society,
Washington State Convention Center, Seattle, Washington, USA

AMS Special Session on Special Functions and q -Series,

Organized by Richard Askey, Mourad E. H. Ismail, and Erik Koelink,

http://jointmathematicsmeetings.org/meetings/national/jmm2016/2181_program_ss31.html#title

AMS Special Session on Recent Advances in Orthogonal Polynomials and Special Functions,

Organized by Xiang–Sheng Wang,

http://jointmathematicsmeetings.org/meetings/national/jmm2016/2181_program_ss17.html#title

June 27 – July 1, 2016

Abecederian of SIDE (ASIDE) 12 Summer School,

Centre de Recherches mathématiques, Université de Montréal, Montréal, Quebec, Canada

<http://www.crm.umontreal.ca/2016/ASIDE2016>

July 3–9, 2016

Symmetries and Integrability of Difference Equations 12,

Hôtel Le Chanteclerc, Saint Adèle, Québec, Canada

<http://www.crm.umontreal.ca/2016/SIDE12/index.php>

July 11–15, 2016

OPSF–S6 Summer School on Orthogonal Polynomials and Special Functions,

Dedicated to the memory and legacy of Frank W. J. Olver,

[Norbert Weiner Center for Harmonic Analysis and Applications,](#)

University of Maryland, College Park, Maryland, USA

<https://wis.kuleuven.be/events/OPSFA>

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

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

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

July 10–19, 2017

Foundations of Computational Mathematics,

Barcelona, Spain

<http://focm-society.org>

From: Daniel Lozier (daniel.lozier@nist.gov)
 Subject: Reaction to SIAM's Evaluation of OPSFA-13

The attendees' opinion of the OPSFA13 technical program was mostly positive or very positive (see Figures 2,3 below). The talks were generally of high quality but in some cases the speakers should have provided an introduction for non-experts. The plenary and minisymposium talks were interesting and well-focused on the conference themes. It was mentioned that many outstanding researchers attended the conference.

The biggest complaint was high cost, especially of the registration fee. There was a strong feeling it should have provided reductions for minisymposium speakers (especially those who are not members of SIAM) and retired people. Snacks should have been included at the coffee breaks, the banquet should have been cheaper (perhaps including wine which was rather high at \$10 per glass) or free, something more than just the program booklet (a carrying bag?), and a low-cost excursion should have been included. Opinions of the hotel were generally positive though some stayed at cheaper alternatives (I should say I thought the hotel rate of \$125 to be quite reasonable for the Washington area).

44% of the attendees were attracted by the conference themes, and 59% because they were speakers or organizers. Most of them heard about the conference from friends and colleagues but others in different ways - including 3.7% from NA-Net, nearly as many as from SIAM's own web page (5.6%). They came mostly for networking opportunities, while nearly 1/3 came because of the location. I suspect the location was attractive because it was the first OPSFA meeting in the USA, and not because it was at NIST or in the Washington area.

Table 1: Summary of Meeting Registrations by Rate Category for FA15

Registration Category	Pre-Reg	On-Site	Total	Paid	Free
COMPLIMENTARY	10	0	10	0	10
INVITED SPEAKER	11	0	11	0	11
SIAM ACTIVITY GROUP MEMBER	32	0	32	32	0
SIAM MEMBER	30	0	30	30	0
SIAM NON-MEMBER	69	0	69	69	0
NSF POSTDOC	3	0	3	3	0
NSF STUDENT	1	0	1	1	0
STUDENT	9	0	9	9	0
STUDENT TRAVEL AWARD	8	0	8	8	0
ONE DAY MONDAY	7	0	7	7	0
ONE DAY TUESDAY	3	0	3	3	0
ONE DAY WEDNESDAY	1	0	1	1	0
ONE DAY THURSDAY	9	0	9	9	0
ONE DAY FRIDAY	1	0	1	1	0
TOTALS	194	0	194	173	21

The conference was well attended, 194 registrations (see Table 1), close to our projection of 200. It seems most attendees were plenary or minisymposium speakers or co-authors; there were no contributed talks. They liked the minisymposium format, and I suspect it contributed to the good attendance. But it also contributed to the frequently expressed

complaint that there were too many parallel sessions. This latter problem was exacerbated by having multiple talks by one individual in one, or more than one, minisymposium session.

NIST as the venue was sometimes criticized for excessive bureaucracy, difficult logistics, and not being near hotels and restaurants. I suspect the badging process and the networking restrictions were part of the reason for these criticisms. Interestingly, no one mentioned the bus service so it seems to have been satisfactory. There were complaints about the coffee service, especially the lack of snacks, and about the high cost of the advance meal tickets, although the opinion of the cafeteria was generally positive.

There was considerable dissatisfaction with SIAM’s management of the conference. The registration and minisymposium organizing procedures were confusing, the registration costs were not readily apparent on the SIAM web page, the procedures for joining SIAM and the SIAG were not clear, and the budget in the program booklet wasn’t a convincing explanation of the actual costs of the conference (see Figure 1). It was suggested that a better job could have been done in announcing the topics and names of the minisymposium organizers.

I agree strongly with the criticism of the budget. First, it does not break out either the NIST or the NSF financial contribution. In the case of NIST, this consisted of a cash grant of \$30,000, plus paid registration for several attendees (even the conference co-organizer!). NIST also provided free of charge to SIAM all onsite conference services (no SIAM staff were present at any time) and all A/V equipment and services. Because of this it is hard to understand why the budget shows \$40,565 for Conference Labor; \$7500 for Supplies, Staff Travel (!), Freight, and Miscellaneous; \$12,439 for Administrative; \$6633 for Accounting/Distribution and Shipping (the only shipping was program books and related material to NIST, which could have been covered either here or in the Freight category); and \$4739 for Other SIAM Services. These items add up to \$71,876, an amount far exceeding the approximately \$10,000 for bus service, which seems to be the only genuine cost to SIAM in addition to (mostly) overhead costs. SIAM has not disclosed the amount of the NSF contribution, which was taken from an NSF block grant to SIAM that is provided (as I understand it) to support SIAM conference activities.

I also agree that there were too many parallel sessions. We could have reduced this to some degree by restricting speakers to just one presentation, and by reducing the length of talks to meet SIAM’s usual guidelines. Having contributed paper presentations, which are shorter than minisymposium presentations, would have helped but we wanted to give all speakers equal time. Possibly also we could have rejected some of the minisymposia with overlapping themes. These steps might not have been enough to allow time for an excursion and they might have had the side effect of reducing attendance at the conference.

OPPSFA- 13 Budget			
Conference Budget			
13th International Symposium on Orthogonal Polynomials, Special Functions and Applications			
June 1-5, 2015			
Gaithersburg, Maryland, USA			
Expected Paid Attendance	190		
Revenue			
Registration Income		\$77,100	
	Total		\$77,100
Expenses			
Printing		\$1,200.00	
Organizing Committee		\$1,900.00	
Invited Speakers		\$15,400.00	
Food and Beverage		\$22,700.00	
AV Equipment and Telecommunication		\$0.00	
Advertising		\$1,500.00	
Conference Labor (including benefits)		\$40,565.00	
Other (supplies, staff travel, freight, misc.)		\$7,500.00	
Administrative		\$12,439.00	
Accounting/Distribution & Shipping		\$6,633.00	
Information Systems		\$11,960.00	
Customer Service		\$4,517.00	
Marketing		\$7,095.00	
Office Space (Building)		\$4,488.00	
Other SIAM Services		\$4,739.00	
	Total		\$142,636
Net Conference Expense			(\$65,536)
Support Provided by SIAM			\$65,536
			\$0
Estimated Support for Travel Awards not included above:			
Early Career and Students	12	\$8,100	

Figure 1: SIAM OPSFA13 Budget

Evaluation Form

The 13th International Symposium on Orthogonal Polynomials, Special Functions and Applications (OPSFA13)
 June 1 - 5, 2015
 National Institute of Standards and Technology
 Meeting Attendance Total: 194
 Survey Response Total: 54 (82.22% Male; 17.78% Female)

How did you hear about the meeting?

59.26% Friends and Colleagues
 16.67% Other
 9.26% Other Electronic
 5.56% SIAM Web Page
 3.70% Online Program
 3.70% NA -- Net
 1.85% Call for Papers Postcard
 0.00% SIAM News

Which medium did you use to register?

81.48% On-line Form
 12.96% E-mail
 5.56% Fax
 0.0% Telephone
 0.0% Postal mail

Please check the two most important factors in the technical program that influenced your decision to attend this year's meeting?

59.26% Minisymposium Organizer/Speaker
 44.44% Conference Themes
 31.48% Co-author/speaker of accepted presentation
 25.93% Plenary speakers
 7.41% Other
 5.56% Organizing Committee

Please check the two most important logistical factors that influenced your decision to attend this year's meeting.

48.08% Networking Opportunities
 32.69% Location
 32.69% Conference Dates
 26.92% Expenses being covered by my employer
 23.08% Other
 3.85% Registration fees
 1.92% Job Opportunities

For each question below, please select the option that matches your opinion:

	Strongly Agree	Agree	No Opinion	Disagree	Strongly Disagree
1. Technical program was excellent	24.53%	43.40%	20.75%	9.43%	1.89%
2. Plenary talks interesting/well -presented	31.48%	53.70%	11.11%	3.70%	0.00%
3. Minisymposia interesting/well-focused on topics related to conference themes	37.04%	57.41%	3.70%	1.85%	0.0%
4. I acquired information that will be useful in my research in my job responsibilities	29.63%	51.85%	16.67%	0.00%	1.85%
5. Registration process was easy	18.52%	37.04%	14.81%	22.22%	7.41%
6. The book exhibits were valuable	3.70%	9.26%	50.00%	29.63%	7.41%

Suggestions for technical program (e.g. minisymposia topics, meeting themes):

- This was fine.
- Well done!
- I value the idea of minisymposia -- much better than traditional concurrent sessions. Its realization was not ideal though because some closely related themes were running on a concurrent basis.
- Minisymposia should be coordinated. I was shocked that people gave two or even three talks at the conference, due to the fact they were asked at several minisymposia.
- Less parallel sessions. There were too many clashes
- Decrease the number of parallel sessions
- Too many parallel sessions
- More Math Knowledge Management could be worthwhile.
- The plenary speaker list should have included names such as Martinez-Finkelstein, Lubinsky, Marcellan, Simon, Totik, Wong, and Grunbaum.
- The process of organizing mini-symposia was cumbersome, some people were contacted several times and gave several talk, others were not contacted at all. No one knew which mini-symposia will be organized and by whom.
- 1-D and multi-D Numerical integration
- The plenary speakers should be asked to prepare their talk so that the 1st half is understandable by a large audience.

- Give plenary speakers the message to cover the area broadly speaking, not too much highly specialised material
- Less minisymposia topics. The number of parallel sessions was very high.

What was the most important feature of this OPSFA meeting? The least important?

- The talks were, generally, quite good.
- Mini-symposium on the legacy of Ramanujan
- Most important is social gathering.
- Very high cost is the most notable feature of this meeting.
- The plenary talks and the minisymposia were equally important. The least important feature was probably the display of Wolfram posters in the hallway
- Logistics was somewhat critical. Access to NIST seems to be quite bureaucratic.
- Most important: networking. Least important: none.
- Most important: meeting colleagues
- Some plenary talks are most important. NIST details are least important
- Minisymposia
- The ability to meet the OPSF community directly. Least important: the banquet--it was pricey and I did not go.
- The most important feature was the fact that many outstanding researchers in the field attend this conference.
- High quality scientific presentations.
- Chance to talk to other experts.
- The topics
- Most important: High level talks
- Meeting colleagues, discussing research. Least important is the location
- The excellence of the Plenary speakers as well as the updated topics of the special sessions

Did you learn anything useful? Will it have an impact on your research programs?

- Yes, I learned a lot of useful information for my own research program.
- Yes
- Clearly, I have gained some new mathematical knowledge about recent novelties on the topics of my interests from the talks and chats with colleagues.
- Yes.
- The minisymposium sessions were very interesting and a good opportunity to share and learn new ideas
- Yes. Yes
- Yes
- Yes, quite a lot. It will have a real impact on what I look at in connection with 3 ideas, and I'll help at least one other in connection with a book, and others I'll be writing to.
- Yes, I learned much that will be useful to my research.
- Yes.
- Yes and yes.
- Yes, some
- Yes
- Do not know yet.
- Not very much
- Not explicitly learning but contact with research colleagues is essential

Additional comments/suggestions are welcome, including comments about the SIAM Conferences Web page.

- This was the first OPSFA meeting in the USA. The cost to attend was too high. The registration fee was ridiculous considering what we got for it. When the conference has been in Europe, the registration fees were reasonable. A banquet was often a part of the fees. And the banquet was much better than the one for OPSFA '13. Furthermore, not that it matters a lot to me, but wine was always gratis in Europe for the banquet but not at OPSFA '13. Furthermore, there was always an excursion planned in Europe (or Tunisia) that was interesting and affordable. Why the organizers didn't plan for an excursion into Washington is beyond me. You should know that the Europeans, in general, were not happy with the cost or the organization. At coffee breaks, there were no snacks (OK by me but I heard numerous complaints from others). In short, nobody can put on a conference as well as the Europeans do; it's unfortunate that so many people were dissatisfied with OPSFA '13.
- The registration fee is excessive and prohibitively expensive. And not a single cookie! Find cheaper venues, scale back the welcome reception, forget the banquet, cut the registration fees in half, and put out a few cookies during the breaks. The NIST cafeteria was actually quite nice and reasonably priced. The lunch tickets were unnecessary and certainly not worth \$15.90.

Figure 2: SIAM OPSFA13 Evaluation Form

- The 12 talks in the Ramanujan mini-symposium were terrific. Wadim Zudilin's talk was superb. Ismail's talk was also excellent.
 - There were overlaps of related minisymposia (e.g., on number theory and on Ramanujan-influenced mathematics) -- this should be better avoided in the future.
 - The way SIAM organizes their meetings is not suitable for this smaller scale meeting.
 - Registration fees were high
 - The only OPSFA conference attended which did not provide snacks with coffee breaks. Also, no excursion. Notable considering the very high registration fee.
 - The registration procedure was not quite clear and overall the conference was extremely pricy in comparison with the service given
 - Imho way too expensive, especially in cases like me (invited speaker for minisymposium, non SIAM member). SIAM should revise its pricing policy if there is interest of contributions from "outside" in the future.
 - Having minisymposia encouraged people to give more than one presentation. More general theming and a restriction of one presentation per person would have been better
 - Outrageous registration fees. For \$540 from each participant, coffee breaks did not have even a single cookie. I've never seen such minimal treatment at any of many conferences I have attended.
 - The registration fee was absolutely disproportioned. They did not give any material (only the book of abstracts), the coffee breaks were awful and the conference dinner was a robbery. I do not understand how you spend more than \$20,000 in food for the conference. It was totally unreal. SIAM (or anybody else) clearly did a very good business with this conference. I hope the next OPSFA organization is not involved at all with SIAM.
 - Good but expensive compare to previous conferences of this theme
 - The registration fees were obscene, especially in light of what we received for them.
 - Too many parallel sessions Too high conference costs
 - The matter of joining the SIG and getting a discount was confusing; actually so was joining SIAM to get effectively the same price as otherwise (but a (partial) year's membership). The SIAM Conferences Web page irritated me in that it did not seem willing to tell me what registration costs would be until I could be poised to sign up. I think that's not very open, and discourages me from looking into going to other SIAM meetings.
 - The registration fee was much too high and not justified by the budget printed in the conference book.
 - Publish the list of mini-symposia and the names of their organizers right away.
 - Advance payment for the lunches was set up with an insecure web site for providing a credit card; I had to do this by phone with customer service
 - Reduce the registration fee to HALF of what was charged. This is a mathematics meeting and we do not have the huge grants that engineers have to pay such high fees. 2. Have a half day excursion to some interesting place with a tour guide. This certainly helps to enhance social interaction. 3. The coffee breaks were poorly organized, and not respectable. SIAM could do much better.
 - Registration fee was high. No reduction for retired participants.
 - The conference was very expensive for what it offered. The conference site was not a good option (far from hotels and difficult to access),
 - Registration fees are too high, conference banquet fee MUCH too high, costs need to be lowered or sponsorship secured
 - Ridiculously high registration fee
- Did you stay at the Courtyard Gaithersburg Marriott Washingtonian Center?**
- Yes 60.87%
No 39.13%
- If you stayed at the Courtyard Gaithersburg Marriott Washingtonian Center, please rate the following statements**
- | | Strongly Agree | Agree | No Opinion | Disagree | Strongly Disagree |
|--|----------------|--------|------------|----------|-------------------|
| Hotel registration was easy | 35.48% | 48.39% | 9.68% | 6.45% | 0.00% |
| Checking into the hotel was easy | 51.61% | 41.94% | 6.45% | 0.00% | 0.00% |
| The hotel staff was helpful | 45.16% | 41.94% | 9.68% | 3.23% | 0.00% |
| The accommodations were good | 35.48% | 48.39% | 9.68% | 3.23% | 3.23% |
| It was easy to find places to meet with others | 22.58% | 48.39% | 19.35% | 6.45% | 3.23% |
| It was close to restaurants | 25.81% | 48.39% | 16.13% | 6.45% | 3.23% |
- If you did not stay at the Courtyard Gaithersburg Marriott Washingtonian Center, where did you stay?**
- Nearby hotel.
 - My daughter's home in Rockville.
 - Sheraton Rockville Hotel
 - SpringHill Suites Gaithersburg 9715 Washingtonian Blvd. Gaithersburg, MD 20878
 - Motel 6 (to reduce the very considerable overall costs at least somewhat).
 - Holiday inn
 - Comfort Inn
 - An extended Stay not that far away. It worked fine to appear for the 7:30 but to NIST and the Washingtonian area had lots of parking and places to wait.
 - The Holiday Inn Gaithersburg.
 - In Berkeley, CA. I gave a talk by videoconference.
 - Motel 6
 - with relatives
 - Holiday inn Gaithersburg
 - It is expensive.
 - home
 - I am local

Figure 3: SIAM OPSFA13 Evaluation Form (cont.)

Topic #2 ——— OP – SF Net 22.5 ——— September 15, 2015

From: Daniel Lozier (daniel.lozier@nist.gov)

Subject: Story by Willard Miller, Jr. in the SIAM NEWS on OPSFA-13

See [link](#) for the September 2015 SIAM NEWS article by Willard Miller, Jr. in which he offers his observations on the technical program of OPSFA-13. Miller also reflects on the importance and value of special functions in scientific applications. For example, he describes the award of the SIAM Gábor Szegő Prize to Karl Liechty for his original work on the asymptotic analysis of orthogonal polynomials arising in models from statistical mechanics, in particular the six-vertex model and a model of non-intersecting random paths.

Topic #3 ——— OP – SF Net 22.5 ——— September 15, 2015

From: Yuan Xu (yuan@uoregon.edu)

Subject: Minutes of the June 3rd SIAG/OPSF business meeting at OPSFA-13

The meeting was chaired by SIAG-OPSFA Chair, Walter Van Assche. About 40 participants attended the meeting.

Walter started, at 3:05 pm, with general remarks about the affairs of the Activity Group. Below is a list of topics that were discussed:

1. The Activity Group news letter, OP-SF Net, which is the main vehicle for reaching the members. It is currently run by Kerstin Jordaan and Howard Cohl, but they need all the help they can get from the members.
2. Activity group webpage: for which the activity group receives the feedback from Bonita Saunders, the webmaster.
3. Announcements: 2017 Election and Charter Renewal. The chair reports the status of the activity group and the need to increase its membership. Dunkl suggested using reciprocal membership for reaching international members.
4. OPSFA conference: OPSFA-13 was supported by the Activity Group and the NIST Applied and Computational Mathematics Division. Lozier mentioned the interesting idea of using the royalties from the NIST Handbook of Mathematical Functions for running conferences for the Activity Group. The initial discussions with NIST and with Cambridge University Press are encouraging but the outcome is uncertain.
5. Other conferences and events: ICIAM 2015 in Beijing, China, Aug. 10-14, 2015, possible application for 2017 Golub SIAM Summer School, and SIAM Annual Meeting in 2016.
6. SIAM discounts for SIAM and SIAG/OPSF membership for participants. Further discussion on increasing membership and how to reach potential members. The current number of the membership is 155, which is on an upswing over the past 2 years. The Chair shares the statistics of the membership with the group (occupation, demography, gender, student members).
7. Future activities [with factual corrections by the editor]: an OPSF summer school will be held at the University of Maryland, USA in June 2016. Discussion on future summer schools. The next OPSFA conference will be held at the University of Kent in July 2017, and there will be an OPSF summer school in the week before the meeting.

The conference was adjourned at 3:45 pm.

Topic #4 ——— OP – SF Net 22.5 ——— September 15, 2015

From: Peter Clarkson (P.A.Clarkson@kent.ac.uk) and Ana Loureiro (A.Loureiro@kent.ac.uk)
Subject: Announcement: OPSFA-14

The 14th International Symposium on Orthogonal Polynomials, Special Functions and Applications (OPSFA14) will be organised by the School of Mathematics, Statistics and Actuarial Science at the University of Kent, Canterbury, UK. The conference will take place 3–7 July 2017. The conference is the 14th event in the OPSFA series and the first one to take place in the UK.

Conferences in the OPSFA series provide a forum for mathematicians, physicists, computational scientists, and application scientists in other fields to communicate recent research results on various aspects and applications of orthogonal polynomials and special functions related to:

- classical analysis
- approximation theory
- continued fractions
- potential theory
- q -calculus
- asymptotics
- Riemann–Hilbert problems
- random matrix theory
- superintegrability and supersymmetry
- integrable systems
- Painlevé equations
- orthogonal polynomials and special functions of several variables
- orthogonal polynomials associated with root systems
- spherical functions
- orthogonality on the complex plane
- multiple orthogonal polynomials
- Sobolev orthogonal polynomials
- stochastic processes

with possible connections to other disciplines such as

- science and industry
- handbooks
- numerical algorithms and tables
- symbolic computation
- combinatorics
- number theory
- theoretical physics
- probability theory and statistics

More information on the local organising committee, the scientific programming committee and other organisational matters is available at:

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

Topic #5 ——— OP – SF Net 22.5 ——— September 15, 2015

From: Maxim Yattselev (maxyatts@math.iupui.edu)

Subject: Announcement: Midwestern workshop on Asymptotic Analysis

The Midwestern Workshop on Asymptotic Analysis will be held at Indiana University in Bloomington, Indiana, USA, October 9–11, 2015. This is the second workshop of this kind and will hopefully become an annual event.

The goal of the Midwestern Workshop on Asymptotic Analysis is to facilitate interactions between mathematicians working in approximation theory, mathematical physics, potential theory and complex analysis by bringing them together in an informal way for a two day workshop. Orthogonal Polynomials and Special Functions play an important part. Sergey Denisov and Peter Miller are among the speakers this year.

A major objective of the workshop is to expose attending graduate students to different areas of analysis. We hope these meetings will help to strengthen the partnership and increase the collaboration between analysts in the midwest.

More information on the workshop is available at:

<http://math.iupui.edu/~maxyatts/workshop>.

Topic #6 ——— OP – SF Net 22.5 ——— September 15, 2015

From: Charles Dunkl (cf5z@virginia.edu)

Subject: Special issue on “Symmetry in orthogonal polynomials” in the journal *Symmetry*

The journal *Symmetry* (ISSN 2073–8994) is currently running a special issue entitled “Symmetry in Orthogonal Polynomials”. Prof. Dr. Charles F. Dunkl, of the Department of Mathematics, University of Virginia, (Charlottesville, VA, USA), is serving as Guest Editor for this issue. *Symmetry*, an international and interdisciplinary scientific journal, publishes reviews, regular research papers and short notes.

The concept of symmetry has been fundamental and studied for millennia. The ancient geometers already knew the five regular solids. For a long time, symmetry was a part of the discipline of geometry, but in more recent times it has become very important in analysis, mathematical physics, and of course, group theory. Symmetry is a key tool in analyzing functions of several variables. In this special issue we aim to present the newest developments in the interaction of symmetry and orthogonal polynomials, in areas such as quantum physics, combinatorics, and classical analysis problems dealing with convergence of polynomial expansions. Prospective topics include more precise formulas, approximation theorems about expansions in orthogonal polynomials of several variables, dependence on the parameters of a weight function, vanishing properties of specific polynomials (such as Jack and Macdonald), and so on. We encourage submission of suitable manuscripts. The submission deadline is 29 February 2016.

You may send your manuscript now or up until the deadline. Submitted papers should not be under consideration for publication elsewhere. We also encourage authors to send a short abstract or tentative title to the Editorial Office in advance (symmetry@mdpi.com). For further reading, please follow the link to the Special Issue Website at:

http://www.mdpi.com/journal/symmetry/special_issues/orthogonal_polynomials.

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Topic #7 ——— OP – SF Net 22.5 ——— September 15, 2015

From: Walter van Assche (Walter.VanAssche@wis.kuleuven.be)
Subject: Special issue on OPSFA in the journal SIGMA

The journal *Symmetry, Integrability and Geometry: Methods and Applications (SIGMA)* (ISSN 1815–0659) is publishing a special issue on “Orthogonal Polynomials, Special Functions and Applications”. The deadline for paper submissions is January 31, 2016.

More information on this special issue, the guest editors, and the submission procedure can be found at <http://www.emis.de/journals/SIGMA/OPSFA2015.html>.

Topic #8 ——— OP – SF Net 22.5 ——— September 15, 2015

From: Zuhair Nashed (M.Nashed@ucf.edu)
Subject: Conference book: “Frontiers of Orthogonal Polynomials and q -Series”

A book consisting of contributed chapters on topics in orthogonal polynomials, q -series, and related topics will be published by World Scientific Publishing in summer of 2016. The book is entitled “Frontiers of Orthogonal Polynomials and q -Series”. It will be edited by Xin Li and M. Zuhair Nashed of the University of Central Florida, Orlando, Florida. The book will be mainly based on the “International Conference on Orthogonal Polynomials and q -Series”, which was held in Orlando, May 10 –12, 2015. The conference was dedicated to Dr. Mourad Ismail on his 70th birthday. The conference consisted of 35 keynote and invited lectures. Plenary talks were given by Professors Richard Askey and Dennis Stanton. The talks were excellent and the conference was a great success.

The proposed edited book will consist of about 25–30 chapters and is expected to be approximately 450 pages. The main themes are two topics in which Mourad has made fundamental contributions: Orthogonal Polynomials and q -Series. There will also be papers on important topics in number theory, combinatorics, approximation theory, and mathematical physics related to orthogonal polynomials and q -series. An effort will be made by the editors to coordinate the chapters, and to provide links and cross references among the various chapters, where they exist.

The following types of contributions are solicited:

1. Expository–research papers that review significant contributions in a particular area, provide perspectives, historical remarks, critical retrospective assessment, useful bibliography, and possibly open problems.
2. Historical and critical expositions that trace certain developments in orthogonal polynomials, q -series, approximation theory, number theory, mathematical physics, or other topics related to the themes of the conference.
3. Original research papers on cutting–edge research in orthogonal polynomials and q -series.

In addition to contributions from the invited speakers who made presentations at the conference, we are inviting contributions from mathematicians who were initially invited to give lectures at the conference, but were not able to participate due to various reasons. We also welcome proposals for contributions from various mathematicians and scientists to the extent that space allows.

Contributions to the book need not be the same as the lecture at the conference, so long as they are within the scope of topics of the conference. The reason for this is that some of the talks were based on papers that have been published recently. Extended abstracts and a summary of a paper or papers published recently are not suitable nor acceptable for inclusion in the proposed book.

Our aim is to have a volume that would highlight trends and important directions of research on orthogonal polynomials, q -series, and related topics in number theory, mathematical physics, and computational/applied harmonic analysis. We strive for a book that would inspire young researchers and provide pleasant memories for the older generations of researchers in these fields.

Topic #9 ——— OP – SF Net 22.5 ——— September 15, 2015

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 2015.

<http://arxiv.org/abs/1505.05682>

From Schoenberg coefficients to Schoenberg functions
Christian Berg, Emilio Porcu

<http://arxiv.org/abs/1507.00031>

On generalized (p, q) -elliptic integrals

Barkat Ali Bhayo, Li Yin

<http://arxiv.org/abs/1507.00147>

Bivariate Chebyshev-I Weighted Orthogonal Polynomials on Simplicial Domains

Mohammad A. AlQudah

<http://arxiv.org/abs/1507.00286>

Hyperbolic development and inversion of signature

Terry Lyons, Weijun Xu

<http://arxiv.org/abs/1507.00494>

Nonnegative Trigonometric Polynomials and Sturms Theorem

Man Kam Kwong

<http://arxiv.org/abs/1507.00807>

A Hardy-Littlewood Integral Inequality on Finite Intervals with a Concave Weight

Horst Alzer, Man Kam Kwong

<http://arxiv.org/abs/1507.00810>

A Refinement of Vietoris Inequality for Cosine Polynomials

Horst Alzer, Man Kam Kwong

<http://arxiv.org/abs/1507.00914>

Character Sums, Gaussian Hypergeometric Series, and Hyperelliptic Curves

Mohammad Sadek

<http://arxiv.org/abs/1507.01104>

Cross-product of Bessel functions: monotonicity patterns and functional inequalities

Árpád Baricz, Saminathan Ponnusamy, Sanjeev Singh

<http://arxiv.org/abs/1507.01505>

Chebyshev-type Quadratures for Doubling Weights

Shoni Gilboa, Ron Peled

<http://arxiv.org/abs/1507.01582>

Differential Equations, Associators, and Recurrences for Amplitudes

Georg Puhlfuerst, Stephan Stieberger

<http://arxiv.org/abs/1507.01622>

Zeros of polynomials orthogonal with respect to a signed weight

M. Benabdallah, M. J. Atia, R. S. Costas-Santos

<http://arxiv.org/abs/1507.01712>

Spectral functions related to some fractional stochastic differential equations

Mirko D'Ovidio, Enzo Orsingher, Ludmila Sakhno

<http://arxiv.org/abs/1507.01821>

Doubling Hahn polynomials: classification and applications

Roy Oste, Joris Van der Jeugt

<http://arxiv.org/abs/1507.01848>

On sums of powers of cosecs

J. S. Dowker

<http://arxiv.org/abs/1507.02017>

Asymptotic laws for the spatial distribution and the number of connected components of zero sets of Gaussian random functions

Fedor Nazarov, Mikhail Sodin

<http://arxiv.org/abs/1507.02193>

A note on an integral associated with the Kelvin ship-wave pattern

R. B. Paris

<http://arxiv.org/abs/1507.02386>

Fine structure in the large n limit of the non-hermitian Penner matrix model

Gabriel Álvarez, Luis Martínez Alonso, Elena Medina

<http://arxiv.org/abs/1507.02515>

A Remark on reverse Littlewood–Paley, restriction and Kakeya

Anthony Carbery

<http://arxiv.org/abs/1507.02547>

Extensions of Positive Definite Functions: Applications and Their Harmonic Analysis

Palle Jorgensen, Steen Pedersen, Feng Tian

<http://arxiv.org/abs/1507.02624>

Non-harmonic cones are Heisenberg uniqueness pairs for the Fourier transform on \mathbb{R}^n

R. K. Srivastava

<http://arxiv.org/abs/1507.02995>

The non-symmetric Wilson polynomials are the Bannai–Ito polynomials

Vincent X. Genest, Luc Vinet, Alexei Zhedanov

<http://arxiv.org/abs/1507.03426>

Matrix-valued orthogonal polynomials related to the quantum analogue of $(SU(2) \times SU(2), \text{diag})$

Noud Aldenhoven, Erik Koelink, Pablo Román

<http://arxiv.org/abs/1507.03749>

Diophantine properties of the zeros of (monic) polynomials the coefficients of which are the zeros of Hermite polynomials

Oksana Bihun, Francesco Calogero

<http://arxiv.org/abs/1507.04123>

Carlitz q -Bernoulli numbers and continued fractions

Frédéric Chapoton, Jiang Zeng

<http://arxiv.org/abs/1507.04193>

Integrability and conformal data of the dimer model

Alexi Morin–Duchesne, Jorgen Rasmussen, Philippe Ruelle

<http://arxiv.org/abs/1507.04769>

Mitigating the Curse of Dimensionality: Sparse Grid Characteristics Method for Optimal Feedback Control and HJB Equations
Wei Kang, Lucas C. Wilcox

<http://arxiv.org/abs/1507.04812>

Uniform polynomial approximation with A^* weights having finitely many zeros
Kirill A. Kopotun

<http://arxiv.org/abs/1507.04813>

Extremal Polarization Configurations for Integrable Kernels
Brian Simanek

<http://arxiv.org/abs/1507.04840>

Proof of the Wilf–Zeilberger Conjecture
Shaoshi Chen, Christoph Koutschan

<http://arxiv.org/abs/1507.04981>

Uniform asymptotic approximations for the Lamé and Mathieu functions and their respective eigenvalues with a large parameter
Karen Ogilvie, Adri B. Olde Daalhuis

<http://arxiv.org/abs/1507.04984>

Rigorous asymptotics for the Lamé and Mathieu functions and their respective eigenvalues with a large parameter
Karen Ogilvie, Adri B. Olde Daalhuis

<http://arxiv.org/abs/1507.05261>

Perturbed Hankel determinant, correlation functions and Painlevé equations
Min Chen, Yang Chen, Engui Fan

<http://arxiv.org/abs/1507.05291>

A non-homogeneous local Tb theorem for Littlewood–Paley g_λ^* -function with L^p -testing condition
Mingming Cao, Qingying Xue

<http://arxiv.org/abs/1507.05430>

Some sharp inequalities for the Toader–Qi mean
Zhen–Hang Yang

<http://arxiv.org/abs/1507.05567>

On quasi-periodicity properties of fractional integrals and fractional derivatives of periodic functions
Iván Area, Jorge Losada, Juan J. Nieto

<http://arxiv.org/abs/1507.05840>

Large GCD sums and extreme values of the Riemann zeta function
Andriy Bondarenko, Kristian Seip

<http://arxiv.org/abs/1507.05919>

Quantum spin chains with fractional revival
Vincent X. Genest, Luc Vinet, Alexei Zhedanov

<http://arxiv.org/abs/1507.05934>

Unconditional and quasi-greedy bases in L_p with applications to Jacobi polynomials Fourier series
Fernando Albiac, José L. Ansorena, Óscar Ciaurri, Juan L. Varona

<http://arxiv.org/abs/1507.06101>

On a family of Laurent polynomials generated by 2x2 matrices
Victor Katsnelson

<http://arxiv.org/abs/1507.06445>

Pitt's inequalities and uncertainty principle for generalized Fourier transform
Dmitry Gorbachev, Valery Ivanov, Sergey Tikhonov

<http://arxiv.org/abs/1507.06557>

Quantum Curve and the First Painlevé Equation
Kohei Iwaki, Axel Saenz

<http://arxiv.org/abs/1507.06681>

New hypergeometric formulae to π arising from M. Roberts hyperelliptic reductions
Giovanni Mingari Scarpello, Daniele Ritelli

<http://arxiv.org/abs/1507.07149>

Irregular Riemann–Hilbert correspondence, Alekseev–Meinrenken dynamical r-matrix and Drinfeld twist
Xiaomeng Xu

<http://arxiv.org/abs/1507.07187>

Hardy space theory on spaces of homogeneous type via orthonormal wavelet bases
Yongsheng Han, Ji Li, Lesley Ward

<http://arxiv.org/abs/1507.07391>

Supercongruences for truncated hypergeometric series and p-adic gamma function
Rupam Barman, Neelam Saikia

<http://arxiv.org/abs/1507.07401>

Integrable solutions of inhomogeneous refinement type equations on intervals
Rafał Kapica, Janusz Morawiec

<http://arxiv.org/abs/1507.07455>

Boundary oscillations of harmonic functions in Lipschitz domains
Pavel Mozolyako

<http://arxiv.org/abs/1507.07522>

Sharp estimates of approximation of periodic functions in Hölder spaces
Yurii Kolomoitsev, Jürgen Prestin

<http://arxiv.org/abs/1507.07596>

Strong Asymptotics of Hermite–Padé Approximants for Angelesco Systems

Maxim L. Yattselev

<http://arxiv.org/abs/1507.07696>

Stein characterisations and distributional theory

Robert E. Gaunt

<http://arxiv.org/abs/1507.07798>

On the Invalidity of Fourier Series Expansions of Fractional Order

Peter Massopust, Ahmed I. Zayed

<http://arxiv.org/abs/1507.07808>

Properties of the zeros of generalized hypergeometric polynomials

Oksana Bihun, Francesco Calogero

<http://arxiv.org/abs/1507.08479>

Some approximation results on higher order generalization of Bernstein type operators defined by (p,q) -integers

M. Mursaleen, Md. Nasiruzzaman

<http://arxiv.org/abs/1507.08796>

Evolution of Weyl functions and initial–boundary value problems

Alexander Sakhnovich

<http://arxiv.org/abs/1508.00056>

Pochhammer Symbol with Negative Indices. A New Rule for the Method of Brackets

Ivan Gonzalez, Lin Jiu, Victor H. Moll

<http://arxiv.org/abs/1508.00609>

Families of orthogonal Laurent polynomials, hyperelliptic Lie algebras and elliptic integrals

Ben Cox, Mee Seong Im

<http://arxiv.org/abs/1508.00176>

The fastest possible continued fraction approximations of a class of functions

Xiaodong Cao, Yoshio Tanigawa, Wenguang Zhai

<http://arxiv.org/abs/1508.00177>

Continued fraction expression of the Mathieu series

Xiaodong Cao, Yoshio Tanigawa, Wenguang Zhai

<http://arxiv.org/abs/1508.00600>

On beta distributed limits of iterated linear random functions

Shaun McKinlay

<http://arxiv.org/abs/1508.00648>

Integral representation of Weil’s elliptic functions

Su Hu, Min–Soo Kim

<http://arxiv.org/abs/1508.00863>

Asymptotic and structural properties of special cases of the Wright function arising in probability theory

R. B. Paris, V. Vinogradov

<http://arxiv.org/abs/1508.01024>

A complete monotonicity result involving the q -polygamma functions

Peng Gao

<http://arxiv.org/abs/1508.01674>

Plane partitions with bounded size of parts and biorthogonal polynomials

Shuheï Kamioka

<http://arxiv.org/abs/1508.01731>

Certain Family of Some Beta Distributions Arising from Distribution of Randomly Weighted Average

Rasool Roozegar

<http://arxiv.org/abs/1508.01793>

n a conjecture of Chen–Guo–Wang

Bo Ning, Yu Zheng

<http://arxiv.org/abs/1508.01794>

Orthogonal polynomials related to some Jacobi–type pencils

Sergey M. Zagorodnyuk

<http://arxiv.org/abs/1508.01816>

Kibble–Slepian Formula and Generating Functions for $2D$ Polynomials

Mourad E. H. Ismail, Ruiming Zhang

<http://arxiv.org/abs/1508.02738>

Representation of solutions to the one–dimensional Schrödinger equation in terms of Neumann series of Bessel functions

Vladislav V. Kravchenko, Luis J. Navarro, Sergii M. Torba

<http://arxiv.org/abs/1508.03198>

Local Fractal Interpolation On Unbounded Domains

Peter R. Massopust

<http://arxiv.org/abs/1508.03267>

Bounds for the logarithm of the Euler gamma function and its derivatives

Harold G. Diamond, Armin Straub

<http://arxiv.org/abs/1508.03274>

On an integral equation of Lieb

Ronen Peretz

<http://arxiv.org/abs/1508.03948>

An asymptotic expansion for the Stieltjes constants

R. B. Paris

<http://arxiv.org/abs/1508.04084>

On some integrals involving the Hurwitz-type Euler zeta functions
Su Hu, Daeyeoul Kim, Min-Soo Kim

<http://arxiv.org/abs/1508.04419>

A note on the fractional logistic equation
I. Area, J. Losada, J. J. Nieto

<http://arxiv.org/abs/1508.04450>

On probabilistic aspects of Chebyshev polynomials
Paweł J. Szabłowski

<http://arxiv.org/abs/1508.04723>

New a priori estimates for semistable solutions of semilinear elliptic equations
Asadollah Aghajani

<http://arxiv.org/abs/1508.04729>

Densities of short uniform random walks in higher dimensions
Jonathan M. Borwein, Armin Straub, Christophe Vignat

<http://arxiv.org/abs/1508.04738>

Dutt-Khare-Varshni Potential and Its Quantized-by-Heun-Polynomials SUSY Partners as Nontrivial Examples of Solvable Potentials Explicitly Expressible in Terms of Elementary Functions
G. Natanson

<http://arxiv.org/abs/1508.04746>

The Smith Normal Form of a Specialized Jacobi-Trudi Matrix
Richard P. Stanley

<http://arxiv.org/abs/1508.04916>

Unique positive solution for an alternative discrete Painlevé I equation
Peter A. Clarkson, Ana F. Loureiro, Walter Van Assche

<http://arxiv.org/abs/1508.05513>

Very accurate approximations for the elliptic integrals of the second kind in terms of Stolarsky means
Zhen-Hang Yang

<http://arxiv.org/abs/1508.05794>

Graph Laplacians do not generate strongly continuous semigroups
Thomas Kalmes, Christoph Schumacher

<http://arxiv.org/abs/1508.05811>

q-Peano Kernel and its Applications
Gülter Budakçı, Halil Oruç

<http://arxiv.org/abs/1508.05852>

On q-analogue of modified Kantorovich-type discrete-Beta operators
Preeti Sharma, Vishnu Narayan Mishra

<http://arxiv.org/abs/1508.06469>

Supersymmetric polynomials and the center of the walled Brauer algebra

Ji Hye Jung, Myungho Kim

<http://arxiv.org/abs/1508.06537>

Effect of change in inner product on spectral analysis of certain linear operators in Hilbert Spaces arising from orthogonal polynomials

Anu Saxena

<http://arxiv.org/abs/1508.06542>

From Morsels to Modern Mathematics

Ivan Badinski, Christopher Huffaker, Nathan McCue, Cameron N. Miller, Kayla S. Miller, Steven J. Miller, Michael Stone

<http://arxiv.org/abs/1508.06689>

A Hypergeometric Integral with Applications to the Fundamental Solution of Laplace's Equation on Hyperspheres

Richard Chapling

<http://arxiv.org/abs/1508.06734>

Random matrices with merging singularities and the Painlevé V equation

Tom Claeys, Benjamin Fahs

<http://arxiv.org/abs/1508.06814>

The cubic szego equation and hankel operators

Sandrine Grellier, Patrick Gerard

<http://arxiv.org/abs/1508.06861>

q -Bessel Functions and Rogers–Ramanujan Type Identities

Mourad E. H. Ismail, Ruiming Zhang

<http://arxiv.org/abs/1508.06906>

Integral representations for products of two parabolic cylinder functions with different arguments and orders

Dirk Veestraeten

<http://arxiv.org/abs/1508.06947>

A proof of two conjectures of Chao–Ping Chen for inverse trigonometric functions

Branko Malesevic, Bojan Banjac, Ivana Jovovic

<http://arxiv.org/abs/1508.07191>

Product formulas for the relativistic and nonrelativistic conical functions

Martin Hallnäs, Simon Ruijsenaars

<http://arxiv.org/abs/1508.07421>

The higher order asymptotic expansion of the Krawtchouk polynomials

Aleksei Minabutdinov

<http://arxiv.org/abs/1508.07668>

Cincinnati lectures on Bellman functions

Leonid Slavin (editor), Vasily Vasyunin

<http://arxiv.org/abs/1508.07770>

An algebraic interpretation of the multivariate q -Krawtchouk polynomials

Vincent X. Genest, Sarah Post, Luc Vinet

Topic #10 ——— OP – SF Net 22.5 ——— September 15, 2015

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).

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) and Kerstin Jordaan (kerstin.jordaan@up.ac.za).

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 or to see a link the archive of all messages, go to <http://lists.siam.org/mailman/listinfo/siam-OPSF> and follow the instructions under the sub-heading “Subscribing to SIAM-OPSF”. To contribute an item to the discussion, send e-mail 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:

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e-mail: service@siam.org

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

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 kerstin.jordaan@up.ac.za.

Contributions to OP–SF NET 22.6 should be sent by November 1, 2015.

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.

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 (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
Diego Dominici, OP–SF Talk moderator
Bonita Saunders, Webmaster and OP–SF Talk moderator

Thought of the month

“The mathematician is only complete in so far as he feels within himself the beauty of the true.”

Johann Wolfgang von Goethe in Oswald Spengler, *Der Untergang des Abendlandes. Umriss einer Morphologie der Weltgeschichte*, Volume 1, p. 61 (translated in J. Newman, *The World of Mathematics*, Simon & Schuster, 1956).