

## CURRICULUM VITAE

Professor Christian Berg  
Department of Mathematics  
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DK-2100 Copenhagen Ø  
Denmark  
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Born June 2, 1944 in Haarslev, Denmark.  
Graduated from Næstved Gymnasium 1963.  
Married 1967 to Margrete Berg. Children: Nanna born 1972, Thomas born 1976.  
Studies in Mathematics at the University of Copenhagen.  
Degrees: Cand.scient. 1968, lic.scient.(ph.d.) 1971, dr. phil. 1976.  
Received the gold medal of the University of Copenhagen in 1969 for a paper about Potential Theory.  
Studies abroad/research visits: Nancy (1966), Paris (1969-70), Los Angeles (1974-75), State College, Pennsylvania (1981), Nancy (1989), Paris (1993,1995), Marseille (1997), Stockholm/Mittag-Leffler (1999), Sevilla (2002), Wrocław (2007),(2008), Paris (2009), Stockholm/Mittag-Leffler (2011).  
Assist. prof. at the University of Copenhagen 1971, assoc. prof. 1972 and professor since 1978.  
Professor emeritus since September 2014.  
Member of The Royal Danish Academy of Sciences and Letters 1982, vice-president 1999-2005.  
Member of The Danish Natural Sciences Research Council 1985-1992.  
Treasurer of Danish Mathematical Society 1982-88, President 1994-98.  
Member of the National committee for mathematics since 1996, chairman 2006.  
Member of the editorial board of Journal of Theoretical Probability (1988-1999) and Expositiones Mathematicae since 1993. From 2006 associate editor of Expositiones Mathematicae.  
Member of the advisory board of Arab. J. Math. Sciences since 1995.  
Published app. 120 scientific papers in international journals, mainly about potential theory, harmonic analysis, moment problems and orthogonal polynomials.  
Coauthor of 2 monographs.

## ADMINISTRATIVE DUTIES

Member of the Study Board 1972-74  
Member of the Board 1977-1984, 1993-1995, Chairman 1996-97  
Director of the Institute for Mathematical Sciences 1997-2002

## INVITED LECTURES

1968: Aarhus  
1969: Oberwolfach, Paris 6  
1970: Nancy  
1971: Nancy  
1972: Aarhus  
1973: Strasbourg, Tunis, Erlangen

1974: Odense, Paris 6, Rennes, Oberwolfach, UCLA  
 1975: Stanford, Univ. of Southern California, UCSD  
 1976: Oberwolfach  
 1977: Salzburg, Wien  
 1978: Oberwolfach, Joensuu, Erlangen  
 1979: Paris 6  
 1980: Bielefeld, Münster  
 1981: Penn State, Cath. Univ. Wasington DC  
 1982: Umeå, Eichstätt, Helsingfors, Joensuu, Uppsala, Stockholm  
 1983: Eichstätt, Lyon, Orsay  
 1984: Prag, Dresden  
 1985: Lyon, Oberwolfach  
 1986: Stockholm, Aarhus  
 1987: San Antonio, Tucson, Tempe, Luxembourg, Sofia  
 1988: Oberwolfach, Eichstätt, Krakow  
 1989: Oberwolfach, Nancy, Strasbourg, Luxembourg, Paris 6, Erlangen, Eichstätt  
 1990: Erice, Nagoya  
 1991: Åbo, Granada  
 1992: Maratea, Evian, Lausanne  
 1993: Paris 6,7, Toulouse, Lyon, Evry, Chateau de Bonas, Leuven  
 1994: Sevilla, Zürich, Lyon, Oberwolfach, Delft  
 1995: Toulouse, Paris, Puebla, Lund, Erlangen, Eichstätt  
 1996: Maratea, Oberwolfach  
 1997: Marseille, Sevilla, Tel Aviv  
 1998: Riyadh, Jeddah, Lund, München, Tampa  
 1999: Lund, Hong Kong, Patras, Mittag-Leffler Institute Stockholm  
 2000: München, Catania, Maratea  
 2001: Guatemala City, Rome, Inzell  
 2002: Oberwolfach, Granada, Almería, Sevilla, Madrid, Cuernavaca, Bexbach  
 2003: Patras, Coimbra  
 2004: Sevilla, Odense, Banff International Research Centre, Irsee, Karthage, Atlanta, Orlando  
 2005: Luminy, Paris-Marne-la Vallée, Santander, Munich  
 2006: Assiut (Egypt), Protaras (Cyprus), Marseille-Luminy, Castellón, Bonn, Bedlewo (Poland), Sousse  
 2007: Lund, Odessa, Voss (Norway), Luminy, Wrocław, Dresden  
 2008: Prague, Leganés (Madrid), Lund  
 2009: Lindau, Lille, Université Marne la Vallée, Aarhus, Leuven, Göttingen  
 2010: Riyadh, Zakopane (Polen), Frederiksberg, Chennai, Orsay  
 2011: Hong Kong, Linz, Leganès, Mittag-Leffler Institute Stockholm  
 2012: Tenerife, Bedlewo (Poland), Szeged  
 2013: San Diego, Tulane University in New Orleans, Logroño, Zaragoza, Sousse, Shantou (China), Hammamet  
 2014: Singapore, Bedlewo (Poland), Dresden, Leipzig  
 2015: India: New Delhi, Roorkee, Mumbai, Bangalore. Chile: Valparaiso, Santiago. Oaxaca (Mexico), Orsay (Paris).  
 2016: Dresden, Bedlewo (Poland), Belgrade, Talca and Valparaiso (both Chile), Niteroi (Rio de Janeiro)

2017: Oberwolfach, Eichstätt, Bedlewo (Poland), Wrocław, Kings College London, Newcastle, St. Andrews

2018: São Carlos, São José do Rio Preto both Brazil, Pisa, Carlsberg Academy in Copenhagen

#### CONFERENCES ORGANIZED

French-Danish Colloquium on Potential Theory, May 14-18, 1979 in Copenhagen (Together with Forst and Fuglede)

The Harald Bohr Centenary, April 24-25, 1987 (Together with Lundberg and Fuglede)

Colloquium in honour of Bent Fuglede, May 24-26, 1992

Positivity of polynomials. Conference at Oberwolfach, February 18-23, 2002 (Together with E. Becker and A. Prestel)

Seventh International Symposium on Orthogonal Polynomials, Special Functions and Applications, Copenhagen, August 18-22, 2003 (Together with H.L. Pedersen (KVL) and J.S. Christiansen)

Workshop on Orthogonal Polynomials, Hankel matrices and Jacobi matrices, August 26-28, 2009 at KU-LIFE (Together with Jacob S. Christiansen and Henrik L. Pedersen (KU-LIFE)).

Workshop on Integral Transforms, Positivity and Applications, September 1-3, 2010 at KU-LIFE (Together with Jacob S. Christiansen and Henrik L. Pedersen (KU-LIFE)).

International Symposium on *Orthogonal Polynomials and Special Functions - a complex Analytic Perspective*, June 11-15, 2012. Venue: Royal Academy of Sciences and Letters, Copenhagen. Committee together with Henrik L. Pedersen and Jacob S. Christiansen.

Workshop on Special Functions and their Applications, August 28-30, 2013. Organizing Committee together with Henrik L. Pedersen.

#### RECENT RESEARCH GRANTS

From the Danish Natural Sciences Research Council:

Project: *Moment problems and Orthogonal Polynomials*, 1994-1997.

Grant under the Program *Geometry and Global Analysis*, 1998-2000, 2001-2003, 2004-2006.

Project: *Complex methods in Dynamical Systems and Special Functions*, 2008-2010. (Joint grant with Bodil Branner, Henrik Laurberg Pedersen and Carsten Lunde Petersen).

*Complex methods in Dynamical Systems and Special Functions*, 2011-2013. (Joint grant with Christian Henriksen (DTU), Henrik Laurberg Pedersen (KU-LIFE) and Carsten Lunde Petersen (RUC)).

#### PARTICIPATION IN CONFERENCES IN ORTHOGONAL POLYNOMIALS, APPROXIMATION, SPECIAL FUNCTIONS

*Nato ASI on Orthogonal Polynomials*, Columbus, Ohio, May 22-June 3, 1989. Presentation of poster.

*Third International Symposium on Orthogonal Polynomials and Their Applications*, Erice June 1-9, 1990. *Lecture*: A density index for the Stieltjes moment problem.

*VII Simposium sobre polinomios ortogonales i aplicaciones*, Granada, September 23-29, 1991.

*Second International Conference on functional analysis and approximation theory*, Maratea, September 14-19, 1992. *Lecture*:  $L^2$ -approximation with respect to a rotation invariant measure.

*International Symposium on Orthogonal Polynomials and their applications*, Evian, October 19-23, 1992. *Lecture*: Nevanlinna extremal measures for some orthogonal polynomials related to birth and death processes.

*Orthogonality, Moment Problems and Continued Fractions*, Delft, October 31-November 4, 1994. *Invited speaker*: Indeterminate Moment Problems and the Theory of Entire Functions.

*Colloque Stieltjes*, Toulouse March 20-22, 1995. Member of the organizing Committee. *Invited speaker*: Moment Problems and Polynomial Approximation.

*Third International Conference on Approximation and optimization in the Caribbean*, Puebla, Mexico, October 8-13, 1995. *Lecture*: When does a discrete differential perturbation of a sequence of orthonormal polynomials belong to  $\ell^2$ .

*Third International Conference on functional analysis and approximation theory*, Maratea, September 23-27, 1996. *Lecture*: Matrix moment problems and operator theory.

*VIII Simposium sobre polinomios ortogonales y aplicaciones*, Sevilla, September 22-26, 1997. Member of the International Scientific Committee. *Lecture*: On some indeterminate moment problems for measures on a geometric progression.

*Entire functions in modern analysis*, Tel Aviv University, December 14-19, 1997. *Lecture*:  $L^2$ -spaces and entire functions.

*AMS-SIAM Summer Research Conference on  $q$ -series, combinatorics and computer algebra*, Mount Holyoke, USA, June 21-25, 1998.

*International Workshop on Special Functions, Asymptotics, Harmonic Analysis and Mathematical Physics*, City University of Hong Kong, June 21-21, 1999. *Invited speaker*: Families of discrete and absolutely continuous solutions to some indeterminate moment problems.

*Fifth International Symposium on orthogonal polynomials, special functions and their applications*, Patras, Greece, September 20-24, 1999. *Lecture*: Generalized  $q$ -Hermite polynomials.

*Workshop on Quantum groups*, Bayrischzell, April 27-30, 2000.

*The Third World Congress of Nonlinear Analysts*, Catania, July 19-26, 2000, *Invited speaker*: Application of the Stieltjes transformation to the Gamma function.

*Fourth International Conference on functional analysis and approximation theory*, Maratea, September 22-29, 2000. *Lecture*: Pick functions related to the Gamma function.

*Sixth International Conference on Approximation and Optimization in the Caribbean*, Guatamala City, March 26-30, 2001. *Lecture*: The  $q$ -Laguerre moment problem.

*Sixth International Symposium on orthogonal polynomials, special functions and applications*, Rome, June 18-22, 2001. *Lecture*: On the Stieltjes moment sequence  $n^{nt}$  and the stable semigroup of index 1.

*Summerschool on Orthogonal polynomials and Harmonic analysis*, Inzell, September 17-21, 2001. *Invited lecture*: Infinitely divisible solutions to indeterminate moment problems.

*Fourth Workshop on Classical and Quantum integrable systems*, Cuernavaca, September 2-6, 2002. *Invited lecture*:  $q$ -special functions and some indeterminate

moment problems.

*Difference equations and special functions*, Bexbach, October 26-30, 2002. *Invited lecture*: A transformation from Hausdorff to Stieltjes moment sequences and its relation to the lognormal distribution.

*Summerschool on Approximation and Iteration*, Coimbra, 14-25 July, 2003. *10 hours of lectures*: Orthogonal Matrix Polynomials.

*BIRS Workshop on Orthogonal Polynomials; Interdisciplinary Aspects*, Banff, March 27- April 1, 2004. *Invited Lecture*: Orthogonal polynomials associated to positive definite matrices.

*Special functions in harmonic analysis and applications*, Irsee, July 19-23, 2004. *Invited lecture*: Powers of Stieltjes moment sequences.

*International conference 'Polynômes positifs'*, Marseille-Luminy, March 12-19, 2005. *Invited lecture*: On some new constructions of moment sequences.

*Workshop: Special Functions and orthogonal Polynomials*. Part of the conference: *Foundations of Computational Mathematics 05*, Santander, June 30- July 2, 2005. *Invited lecture*: A positivity result for Bessel polynomials.

*International Conference on Difference Equations, Special Functions and Applications*, Munich, July 25-30, 2005. (Member of the International Scientific Committee.) *Plenary Lecture*: Logarithmic order and type of entire functions associated with indeterminate moment problems.

*International Conference on Mathematical Analysis and its applications*, As-siut, January 3-6, 2006. *Invited lecture*: Growth properties of entire functions associated with indeterminate moment problems.

*International Conference in Fourier analysis: Classical problems-current view*, Cyprus, May 6-11, 2006. *Invited lecture*: Transformation of moment sequences, fix-point measures and their Mellin transforms.

*International Conference: Spaces of holomorphic functions and their operators*, Marseille-Luminy, June 5-9, 2006. (Member of the International Scientific Committee.) *Invited lecture*: Logarithmic order and type: A refined scale of growth for entire functions of order zero.

*Harmonic analysis and orthogonal expansions*, Bedlewo, Poland, September 24-29, 2006. *Invited lecture*: Moment sequences and Mellin transforms.

*International Conference on Harmonic Analysis and Applications*, Sousse, Tunisia, November 6-11, 2006. *Invited lecture*: Transformations of moment sequences, a fix-point-measure and its Mellin transform.

*International Conference: Modern Analysis and Applications*, Dedicated to the centenary of Mark Krein. Odessa, Ukraine, April 9-14, 2007. *Plenary lecture*: On the work of Krein related to moment problems.

*New trends in complex analysis* An international conference on analysis and mathematical physics, Voss, Norway, May 7-12, 2007. *Invited lecture*: Quantum Hilbert matrices and orthogonal polynomials.

*9'th International Conference on Orthogonal Polynomials, Special Functions and Applications*, Luminy, France July 2-6, 2007. (Member of the International Scientific Committee.) *Plenary lecture*: Quantum Hilbert matrices and orthogonal polynomials.

*International Workshop on Orthogonal Polynomials and Approximation Theory*, Universidad Carlos III de Madrid, Spain September 8-12, 2008. *Lecture*: Bounds on Turán determinants.

*Workshop on Approximation Theory and Signal Analysis*, Lindau, Germany March 21-24, 2009. *Lecture*: Fibonacci numbers and moment sequences.

*10'th International Conference on Orthogonal Polynomials, Special Functions and Applications*, Leuven, Belgium July 20-25, 2009. (Member of the International Scientific Committee.) *Lecture*: The smallest eigenvalue of Hankel matrices.

*Sixth International Conference on functional analysis and approximation theory*, Maratea, September 24-30, 2009. *Lecture*: Eigenvalues of large Hankel matrices.

*Analysis, Geometry and Probability related to group actions*, Zakopane, Poland, April 17-24, 2010. *Lecture*: Pick functions related to the volume of the unit ball in  $n$ -space.

*Functions and Operators 2010*, Conference in honour of the 70'th birthday of Professor F.H Szafraniec, Krakow, June 21-25, 2010. *Lecture*: Moment problems and eigenvalues of Hankel matrices.

*10th international conference on Probability Theory and Mathematical Statistics*, Vilnius, June 28-July 2, 2010. *Lecture*: Some recent results about Student  $t$ -distributions.

*International Conference on Asymptotics and Special Functions*, City University of Hong Kong, May 30-June 3, 2011. *Lecture*: Shell polynomials and indeterminate moment problems: Answer to a question by Ted Chihara.

*CAOTA2011: Complex Analysis, Operator Theory, and Approximation*. Conference dedicated to the memory of Franz Peherstorfer. Johannes Kepler University, Linz, July 24-29, 2011. *Lecture*: Applications of complex analysis to questions about the volume of the unit ball in Euclidean space.

*11'th International Conference on Orthogonal Polynomials, Special Functions and Applications (OPSFA)*. Leganés, Spain, August 29-September 2, 2011. *Lecture*: On generalized Stieltjes-Wigert polynomials.

*Harmonic and Complex Analysis and its Applications (HCAA 2012)*, Puerto de la Cruz, Tenerife, March 5-9, 2012. *Lecture*: A transformation of Hausdorff moment sequences and its relation to iterations of the rational function  $\psi(z) = z - 1/z$ .

*Probabilistic Aspect of Harmonic Analysis*, Bedlewo, Poland, April 28-May 5, 2012. *Lecture*: On a transformation of probability measures on the unit interval and its relation to an iteration leading to the  $q$ -Digamma function.

*Workshop on Potential Theory and applications*, Szeged, Hungary, May 28-31, 2012. *Lecture*: A potential kernel on the half-line related to a  $q$ -analogue of the Digamma function.

*Annual Joint Mathematics Meeting of the AMS*, San Diego, January 9-12, 2013. Invited lecture in the session  $q$ -Series in Mathematical Physics and Combinatorics organized by Mourad Ismail: *On an iteration leading to a  $q$ -analogue of the Digamma function*.

*ORTHONET 2013*, Logroño, Spain, February 22-23, 2013. Invited to give the Luis Vigil lecture: *On the order of indeterminate moment problems based on the recurrence coefficients*.

*12'th International Conference on Orthogonal Polynomials, Special Functions and Applications (OPSFA)*, Sousse, Tunisia, March 24-29, 2013. Talk: *On the order of indeterminate moment problems*.

*Computational Methods and Function Theory (CMFT 2013)*, Shantou, China, June 10.-14. Invited plenary lecture: *On the growth of entire functions associated*

with indeterminate moment problems.

*Lévy Processes and Selfsimilarity*, Hammamet, Tunisia, November 4–9, 2013. Invited lecture: *On the determinacy/indeterminacy of the Stieltjes moment sequence  $(n!)^c, c > 0$ .*

*Program on Inverse moment problems: The crossroads of analysis, algebra, discrete geometry and combinatorics*, Institute for Mathematical Sciences at National University of Singapore. Participated January 15–26, 2014. Lecture: *Indeterminate moment problems and growth of associated entire functions.*

*Probabilistic Aspects of Harmonic Analysis*, Bedlewo, April 27–May 3, 2014. Lecture: *Asymptotic behaviour of a convolution semigroup of Urbanik.*

*Orthogonal and multiple orthogonal polynomials*, Oaxaca, Mexico, August 9–14, 2015. Lecture: *Gegenbauer polynomials and positive definiteness.*

*Probabilistic Aspects of Harmonic Analysis*, Bedlewo, Poland, May 16–20, 2016. Lecture: *Orthogonal expansions related to compact Gelfand pairs.*

*IECMSA-2016*, Belgrade, August 16–19, 2016. Lecture: *Gegenbauer polynomials and positive definiteness.*

*10th ENAMA*, Niteroi, Rio de Janeiro, November 9–11, 2016. Lecture: *Orthogonal expansions related to compact Gelfand pairs.*

*Real Algebraic Geometry with a view towards moment problems and optimization*, Oberwolfach, March 5–11 2017. Lecture: *indeterminate moment problems*

*Hilbert spaces of entire functions and their applications*, Bedlewo, Poland, May 22–26, 2017. Lecture: *Indeterminate moment problems.*

*14th OPSFA*, Canterbury, UK, July 2–7, 2017. Lecture: *Indeterminate moment problems.*

*Spectral theory of Hankel operators and related topics*, Workshop King's College London, November 2–3, 2017. Lecture: *Hankel matrices of indeterminate moment problems.*

*Complex ODEs: Asymptotics, Orthogonal Polynomials and Random Matrices*, Pisa, May 14–18, 2018. Lecture: *A two parameter extension of the Urbanik semigroup.*

*International Conference on Orthogonal Polynomials and Holomorphic dynamics*, Carlsberg Academy, August 14–17, 2018. Lecture: *Indeterminate Hamburger moment problems.*

#### MASTERS STUDENTS (SPECIALE)

- Vagn S. Andersen, 1974, *Dominationsprincippet for foldningskerner*  
 Mogens Nørgaard Olesen, 1976, *Repræsentationer af Dirichlet-former*  
 Jesper Laub, 1976, *Potentialteoretiske principper for foldningskerner*  
 Lars Hebjørn, 1976, *Divisionskegler af potentialkerner*  
 Thyge Christensen, 1977, *Potentialteoretiske relative principper for foldningskerner*  
 Søren Christian Andersen, 1979, *Uendelig delbarhed af student-fordelingen*  
 Klaus Olsbjerg Jensen, 1980, *Uendelige Bernoulli foldninger*  
 Lasse Petersen, 1981, *Anvendelser af operatorteori på det flerdimensionale momentproblem*  
 Hans Jesper Pihl, 1981, *Anvendelse af momentproblemet på Markovprocesser*  
 Marianne Schou Hansen, 1981, *Kædebrøkers anvendelse på Stieltjes momentproblem*  
 Grete Ridder Ebbesen, 1983, *Generaliserede  $\Gamma$ -foldninger og Bondesson klassen*  
 Jens Erik Wang, 1985, *Momentproblemet med specielt henblik på kompakte mængder i euklidisk rum*

- Henrik L. Pedersen, 1991, *Beskrivelse af indeterminerede Nevanlinna-extremale mål ved en konkret klasse af hele funktioner*
- Mads Smith Hansen, 1994, *Orthogonal polynomials and measures in  $M(a, b)$*
- Peter Christiansen, 1994, *Ortogonal polynomier og fødsels- og dødsprocesser*
- Rasmus B. Andersen, 1998, *Det rotationsinvariante momentproblem og dets forbindelse til Stieltjes' momentproblem*
- Jesper Hudlebusch, 2000, *Ortogonal matrix polynomier*
- Jacob Stordal Christiansen, 2000 *The moment problem associated with the Stieltjes-Wigert polynomials*
- Christian Harhoff, 2001 *Fuldstændigt monotone funktioner relateret til Gamma-funktionen*
- Rune Kaasen, 2007 *Unbounded operators and the classical moment problem*
- Helle Bjerg Petersen, 2009 *A non-linear transformation of Hausdorff moment sequences*
- Kaspar Nissen, 2010 *Multi-dimensionelle Momentproblemer*
- Stefano Pane, 2011 *Riemanns Zeta funktion*
- Thomas Voergaard, 2012 *Dirichlet rækker*

#### PH.D.-STUDENTS

- Torben Maack Bisgaard, 1989, *Moment problems on semigroups* .
- Marco Thill, 1991, *Answers to several questions in the theory of positive definite and related functions* .
- Jacob Stordal Christiansen 2001-2004, *Indeterminate moment problems within the Askey-scheme*.

#### MONOGRAPHS

1. With G. Forst, *Potential theory on locally compact abelian groups*, *Ergebnisse der Math.* Bd. **87**. Springer, Berlin 1975.
  2. With J.P.R. Christensen and P. Ressel, *Harmonic analysis on semigroups. Theory of positive definite and related functions*, *Graduate Texts in Mathematics* vol. **100**. Springer Verlag 1984.
1. *Potential Theory, Copenhagen 1979*, *Lecture Notes in Mathematics* Volume 787, Springer, 1980, *Proceedings of a Colloquium*, May 14–18, 1979. Edited by C. Berg, G. Forst, and B. Fuglede.
  2. *Det umulige i cirkelns kvadratur*, *Berlingske Tidendes Kronik* (11.1.1983).
  3. *Harald Bohr, 1887-1951*, *Hovedomrødet* (April 1987).
  4. *Introduction to the almost periodic functions of Bohr*, In: *The Harald Bohr Centenary. Proceedings of a Symposium held in Copenhagen April 24.-25., 1987*. Eds. C. Berg, B. Fuglede. *Mat.-Fys. Medd. Danske Vid. Selsk.* 42:3. Copenhagen 1989..
  5. *Riemann's formodning*, *Familiens Marts* 1990.
  6. *Trekantens Nipunktscirke*, *Matematiske Ideer*. En artikelsamling til stiftets 50-års skriftlige opgaver, *Matematiklubbens Tidsskrift*, 1993, Red: Sven Toft Jensen, Jesper Matthiasen.
  7. *Biografen over Jessen*, *Udvalgte skrifter* 1994, *Københavns Universitet*, 1994, pp. 809–813.
  8. *Thioger Bang*, *Oversigt over Selskabets Virksomhed 1997-98*, *Det Kongelige Danske Videnskaberne Selskab*, 1999, pp. 185–191.
  9. *Poisson formula for harmonic functions*. (2001), *Encyclopedia of Mathematics*, En sides bidrag til ovennævnte.
  10. *Den Internationale Matematikerkongres i Beijing 2002*, *Familiens Marts* (2002).



11. *Proceedings of the Seventh International Conference on Orthogonal Polynomials, Special Functions and Applications, Copenhagen, Denmark, 18–22 August 2003*, Guest Editors: C. Berg, J.S. Christiansen, H.L. Pedersen, J. Comput. Appl. Math. **178** (2005), 1–538.
12. *Ortogonal polynomier og Hilbert matricen*, NORMAT **54 Nr. 3** (2006), 116–133.
13. *Børge Jessen, 19.6.1907–20.3.1993*, Electronic journal for History of Probability and Statistics **5, no. 1** (2009), www.jehps.net, 15 pages..
14. *Book review of Murray Marshall: Positive Polynomials and Sums of Squares. Mathematical Surveys and Monographs, 146, AMS, Providence, RI, 2008, 187 pp.*, J. Approx. Theory **162** (2010), 236–238.
15. *Book review of Barry Simon: Szegő's Theorem and its Descendants: Spectral Theory for  $L^2$  Perturbations of Orthogonal Polynomials. Princeton University Press, 2010, 720 pp.*, J. Approx. Theory **163** (2011), 1029–1034, DOI:10.1016/j.jat.2011.04.006.
16. *Hilbertmatricen*, Famøs **21** (2011), 40–57.

1. *Udvalgte emner fra potentialteori*, Københavns Universitet, Matematisk Institut, 1971, 144 sider.
2. With G. Forst, *Harmonisk analyse og potentialteori*, Københavns Universitet, Matematisk Institut, 1974, 435 sider.
3. *Momentproblemet*, Københavns Universitet, Matematisk Institut, 1979, 230 sider.
4. With G. Forst, *Uendeligt delbare mål*, Københavns Universitet, Matematisk Institut, 1980, 360 sider.
5. *Lectures on Fourier Analysis and Potential Theory.*, In: Summer School in potential theory, 187–268. Edited by Ilpo Laine and Olli Martio. Department of mathematics and physics report series. University of Joensuu, Joensuu, Finland 1983.
6. *Matematik 2MA, Matematisk Analyse. I: Metriske rum, II: Mål- og integralteori, III: Kompleks funktionsteori*, Københavns Universitet, Matematisk Institut, 1992.
7. *Selected topics from measure theory*, Københavns Universitet, Matematisk Institut, 1992, 83 p..
8. *Matematik 3GT, Topologi*, Københavns Universitet, Matematisk Afdeling, 1997.
9. *Matematik 2KF, Kompleks Funktionsteori*, Københavns Universitet, Matematisk Afdeling, 2001.
10. *Matematik 2KF, Kompleks Funktionsteori*, Københavns Universitet, Matematisk Afdeling, 2002, New revised edition.
11. *The matrix moment problem*, Coimbra Lecture Notes on Orthogonal Polynomials, ISBN: -13:978-1-60021-972-1, Nova Publishers, New York, 2008, pp. 1–57, Lecture notes from a Summer school in Coimbra July 2003 Editors: Ana Pilar Foulquié Moreno and Amílcar José Pinto Lopes Branquinho (Universidade de Aveiro, Aveiro, Portugal).
12. *Complex Analysis*, Københavns Universitet, 2007, 190 pages.
13. *Complex Analysis*, Københavns Universitet, 2010, 192 pages.
14. *Complex Analysis*, Københavns Universitet, 2014, 192 pages.

1. *Corps convexes et potentiels sphériques*, Mat.–Fys. Medd. Danske Vid. Selsk. **37** No. 6 (1969), 64 pages.
2. *Shephards approximation theorem for convex bodies and the Milman theorem*, Math. Scand. **25** (1969), 19–24.
3. *Abstract Steiner points for convex polytopes*, J. London Math. Soc. (2) **4** (1971), 176–180.
4. *Suites définies négatives et espaces de Dirichlet sur la sphère*, Sémin. Théorie du Potentiel, Paris, Année 1969/70. 18 p. (Two notes in C. R. Acad. Sci. Paris, 271, 488–490, 778–780 contain a summary of this paper).
5. *Quelques propriétés de la topologie fine dans la théorie du potentiel et des processus standard*, Bull. Sci. Math. 2<sup>e</sup> série, **95**, (1971), 27–31.
6. *Dirichlet forms on symmetric spaces*, Ann. Institut Fourier, Grenoble **23**<sup>1</sup>, (1973), 135–156.
7. *Sur les semi-groupes de convolution*, Publication du Colloque de Théorie du Potentiel et Analyse Harmonique, Strasbourg 1973. Lecture Notes in Math. **404**, 1–26. Springer, Berlin 1974.

8. *On the potential operators associated with a semigroup*, *Studia Math.* **51** (1974), 109–111.
9. *Transformation de Fourier de mesures de types positif sur un groupe abélien localement compact*, *Sém. Théorie du Potentiel, Paris 1972–74. Lecture Notes in Math.* **518**, 37–44. Springer, Berlin 1976.
10. *Semi-groupes de convolution sur les groupes non-moyennables*, *Sém. Théorie du Potentiel, Paris 1972–74. Lecture Notes in Math.* **518**, 45–53. Springer, Berlin 1976.
11. With G. Forst, *Non-symmetric translation invariant Dirichlet forms*, *Inventiones Math.* **21**, (1973), 199–212.
12. With G. Forst, *A remark on the behaviour at infinity of the potential kernel*, *Z. Wahrsch. verw. Geb.* **31** (1975), 141–145.
13. With J.P.R. Christensen, *On the relation between amenability of locally compact groups and the norms of convolution operators*, *Math. Ann.* **208** (1974), 149–153.
14. With J.P.R. Christensen, *Sur la norme des opérateurs de convolution*, *Inventiones Math.* **23** (1974), 173–178.
15. With J. Faraut, *Semi-groupes de Feller invariants sur les espaces homogènes non moyennables*, *Math. Zeitschrift* **136** (1974), 279–290 (A note in *C. R. Acad. Sci., Paris*, **277** (1973), 807–808 contains a summary of this paper).
16. *On the support of the measures in a symmetric convolution semigroup*, *Math. Zeitschrift* **148** (1976), 141–146.
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