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Selberg integrals and Hankel determinants Masao Ishikawa, Jiang Zeng To cite this version: Masao Ishikawa, Jiang Zeng. Selberg integrals and Hankel determinants. 26th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2014), 2014, Chicago, United States. pp.549-560. hal-01207553

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Selberg integrals and Hankel determinants

Selberg integrals and Hankel determinants - CORE It is found that many classical properties of Hankel determinants can be generalized, and a connection with Selberg type integrals is established. In particular, Selberg's original formula amounts to the evaluation of all Hankel hyperdeterminants built from the moments of the Jacobi polynomials. Page 1/2

Selberg Integrals And Hankel Determinants Core

arXiv:2008.09776v1 [math.CO] 22 Aug 2020 Hankel hyperpfaffian calculations and Selberg integrals Masao ISHIKAWA*1 and Jiang ZENG2 1Department of Mathematics, Okayama University, Tsushima, Okayama 700-8530, Japan, mi@math.okayama-u.ac.jp 2Univ Lyon, Université Claude Bernard Lyon 1, CNRS UMR 5208, Institut Camille Jordan, 43 Blvd. du 11 novembre 1918, F-69622 Villeurbanne cedex, France

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Hankel hyperpfaffian calculations and Selberg integrals

Selberg integrals and Hankel determinants 3 2 Minor summation formula of Pfaffians Let $A = (a_{ij})_{i,j=1}^n$ be an array. When $I = \{i_1, \dots, i_r\}$ is a row index set, $J = \{j_1, \dots, j_r\}$ is a column index set, let $A_{I|J} = (a_{i_l j_s})_{l,s=1}^r$ denote the $r \times r$ minor of A obtained by choosing the rows in I and the columns in J . We use the notation $[n] = \{1, \dots, n\}$ for a positive integer n . For example, if

Selberg integrals and Catalan-Pfaffian Hankel determinants

They show that Selberg-type integrals can be evaluated by means of Hankel hyperdeterminants, and they prove many hyperdeterminant generalisations of classical Hankel determinant evaluations ...

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Hankel hyperdeterminants and Selberg integrals

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Furthermore we give another proof of Theorem 3.1 in Ishikawa et al. (2013) by reducing it to the $k = 2$ case of Askey's q -Selberg's integral formula via de Bruijn's formula. We believe that our new proof gives a simpler and essentially insightful method to Pfaffian analogues of several Hankel determinants.

Selberg integrals and Catalan-Pfaffian Hankel determinants ...

Selberg integrals and Catalan-Pfaffian Hankel determinants

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Bernard Lyon 1, e-mail: zeng@math.univ-lyon1.fr. Definition Let $C_n = \frac{1}{n+1} \binom{2n}{n}$ denote the Catalan number, $M_n = \sum_{k=0}^n \binom{2k}{k} \binom{2(n-k)}{n-k}$ the Motzkin number, $D_n = \sum_{k=0}^n \binom{n}{k} \binom{n+k}{k}$ the ...

Selberg integrals and Catalan-Pfaffian Hankel determinants

CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): Abstract. In our previous works "Pfaffian decomposition and a Pfaffian analogue of q-Catalan Hankel determinants" (by M. Ishikawa, H. Tagawa and J. Zeng, J. Combin. Theory Ser. A, 120, 2013, 1263-1284) we have proposed several ways to evaluate certain Catalan-Hankel Pfaffians and also formulated several conjectures.

Selberg integrals and Catalan-Pfaffian Hankel determinants

In the previous paper (J. Combin. Theory Ser. A, 120, 2013, Page 6/11)

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1263–1284) H. Tagawa and the two authors proposed an algebraic method to compute certain Pfaffians whose form resemble to Hankel determinants associated with moment sequences of the classical orthogonal polynomials. At the end of the paper they offered several conjectures. In this work we employ a completely different method to ...

Hankel hyperpfaffian calculations and Selberg integrals

Hankel hyperpfaffian calculations and Selberg integrals. In the previous paper (J. Combin. Theory Ser. A, 120, 2013, 1263--1284) H. Tagawa and the two authors proposed an algebraic method to compute certain Pfaffians whose form resemble to Hankel determinants associated with moment sequences of the classical orthogonal polynomials.

Hankel hyperpfaffian calculations and Selberg integrals

It is found that many classical properties of Hankel determinants

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can be generalized, and a connection with Selberg type integrals is established. In particular, Selberg's original formula amounts to the evaluation of all Hankel hyperdeterminants built from the moments of the Jacobi polynomials.

Hankel hyperdeterminants and Selberg integrals - NASA/ADS

In this work we propose a new approach to compute these Catalan-Hankel Pfaffians using Selberg's integral as well as their q -analogues. In particular, this approach permits us to settle most of the conjectures in our previous paper. Dans nos travaux précédents "Pfaffian decomposition and a Pfaffian analogue of q -Catalan Hankel determinants" (by M. Ishikawa, H. Tagawa and J. Zeng, J. Combin.

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(2003) Hankel hyperdeterminants and Selberg integrals. Journal

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of Physics A: Mathematical and General 36 :19, 5267-5292.
(2003) Random matrix theory and discrete moments of the Riemann zeta function.

Selberg Integrals and Hypergeometric Functions Associated ...

It is found that many classical properties of Hankel determinants can be generalized, and a connection with Selberg type integrals is established.

Hyperdeterminantal calculations of Selberg's and Aomoto's ...

Hence, Selberg's integral computes precisely the Hankel hyperdeterminants $D(k, n, c)$ when the c_n are the moments of the measure $d\mu(x) = x^{a-1}(1-x)^{b-1}dx$ (the Beta distribution). The orthogonal polynomials for this measure are, up to a simple change of variables, the Jacobi polynomials

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$P(a-1, b-1)_n (1-2x)$. Hence, we can as well compute

arXiv:math-ph/0211044v1 19 Nov 2002

A Pfaffian analogue of the Hankel determinants and the Selberg integrals. Abstract: In the previous work with Hiroyuki Tagawa and Jiang Zeng, we established a Pfaffian analogue of the Hankel determinants of q -Catalan numbers. In the proof we used the Pfaffian decomposition and Jackson's formula for the basic hypergeometric series ${}_6\varphi_5$...

Abstracts - Topics in Combinatorial Representation Theory

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starlike and bi-convex functions of order ...

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