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Selberg Integrals And Hankel Determinants
FPSAC 2014, Chicago, USA DMTCS proc. AT, 2014, 549–560 Selberg integrals and Catalan-Pfaffian Hankel determinants Masao Ishikawa1 and Jiang Zeng2y 1 Department of Mathematics, University of the Ryukyus, Nishihara, Okinawa 901-0213, Japan, 2Institut Camille Jordan, Universit´e Claude Bernard Lyon 1, France, Abstract. In our previous works “Pfaffian decomposition and a Pfaffian analogue ...

Selberg integrals and Hankel determinants
Selberg integrals and Hankel determinants 5 In fact, Proposition 3.1 is a corollary of the following proposition, which is a hyperpfaffian version of de Bruijn’s formula. Proposition 3.2 Let mand nbe positive integers. Let ϕs;i(x) and s;i(x) be functions on [0;a] for 1 i 2n, 1 s m. Then we have ∫ ∫ 0 x1< <xn a ∏m s=1 det(ϕs;i(xj)j s;i(xj))!(dqx)

Selberg integrals and Catalan-Pfaffian Hankel determinants
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 Masao Ishikawa, University of the Ryukyus, e-mail: ishikawa@edu.u-ryukyu.ac.jp, Jiang Zeng, Universit´e Claude Bernard Lyon 1, e-mail: zeng@math.univ-lyon1.fr. Definition Let Cn = 1 n+1 2n n denote the CataIn number, Mn = Pn k=0 n 2k Ck the Motzkin number, Dn = Pn k=0 n k n+k k the ...

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 ...

Hankel hyperdeterminants and Selberg integrals
In this work we propose a new approach to compute these Catalan-Hankel Pffafians 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.

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.

Hankel hyperdeterminants and Selberg integrals - NASA/ADS
CiteSeerX - Document Details (Isaac Councill, 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 Pffafians and also formulated several conjectures.

Selberg integrals and Catalan-Pfaffian Hankel determinants
gives back the classical determinant. We have explained in [28] that Selberg’s integral could be rewritten as a hyperdeterminant of Hankel type (i.e., whose entries depend only on the sum of the indices) built from the moments of the beta distribution. In this paper, we give a complete translation of Selberg’s proof in the hyperdeterminantal

HyperdeterminantalcalculationsofSelberg’s andAomoto’sintegrals
a special case of the general formula (26) derived below from Selberg’s integral. For later reference, let us recall that the Hankel determinants D(1) n (c) are the products of the squared norms of the monic orthogonal polynomials Pn, and that, more generally, the shifted Hankel determinants D(1) n;r(c) = D (1)

arXiv:math-ph/0211044v1 19 Nov 2002
In this case the Hankel determinant is a discrete analogue of the Selberg integral and can be viewed as a matrix integral with discrete measure. We briefly comment on its relation to Plancherel ...

(PDF) Hankel determinants of Dirichlet series
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.

CiteSeerX — Hankel hyperdeterminants and Selberg integrals
[2] M. Ito and M. Noumi: Evaluation of the BCn elliptic Selberg integral via the fundamental invari- ants, Proc. Amer. Math. Soc. 145 (2017), 689{703 (arXiv:1504.07317, 15 pages). [3] M. Ito and M. Noumi: A determinant formula associated with the elliptic hypergeometric integrals

Elliptic hypergeometric integrals
The story of Jack’s polynomials is closely related to the generalizations of the Selberg integral [1,12,13,18,21,26]. The relation between Jack’s polynomials and hyperdetermi- nants appeared implicitly in this context in [21], when one of the authors with J.-Y. Thibon gave an expression for the Kaneko integral [12] in terms of Hankel ...

Hankel hyperdeterminants, rectangular Jack polynomials and ...
(2003) Hankel hyperdeterminants and Selberg integrals. Journal 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 ...
In this case the Hankel determinant is a discrete analogue of the Selberg integral and can be viewed as a matrix integral with discrete measure. We briefly comment on its relation to Plancherel measures.

Hankel determinants of Dirichlet series - NASA/ADS
(2003) Hankel hyperdeterminants and Selberg integrals. Journal of Physics A: Mathematical and General 36 :19, 5267-5292. (2002) Determinant formulas for multidimensional hypergeometric period matrices.

Jacobi Polynomials Associated with Selberg Integrals ...
We also show that for certain operators T, the second determinant above can be rewritten in terms of Selberg type integrals, and that for certain operators T and certain families of orthogonal polynomials (p n) n, one (or both) of these determinants can also be rewritten as the constant term of certain multivariate Laurent expansions.

Wronskian type determinants of orthogonal polynomials ...
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 seris ${}_{6}\varphi ...