Mathematics > Representation Theory

Entropy of Schur-Weyl Measures

Sevak Mkrtchyan

(Submitted on 8 Jul 2011 (v1), last revised 13 Aug 2012 (this version, v2))

Relative dimensions of isotypic components of N-th order tensor representations of the symmetric group on n letters give a Plancherel-type measure on the space of Young diagrams with n cells and at most N rows. It was conjectured by G. Olshanski that dimensions of isotypic components of tensor representations of finite symmetric groups, after appropriate normalization, converge to a constant with respect to this family of Plancherel-type measures in the limit when N/sqrt{n} converges to a constant. The main result of the paper is the proof of this conjecture.

Comments:	47 pages, 11 Figures. This is the final version to be published in Annales de l'Institut Henri Poincar\'e
Subjects:	**Representation Theory (math.RT)**; Combinatorics (math.CO); Probability (math.PR)
MSC classes:	`05D40, 05E10, 20C30, 60C05`
Cite as:	**arXiv:1107.1541 [math.RT]**
	(or **arXiv:1107.1541v2 [math.RT]** for this version)

Submission history

From: Sevak Mkrtchyan [view email]
[v1] Fri, 8 Jul 2011 00:53:57 GMT (286kb,D)
[v2] Mon, 13 Aug 2012 16:04:14 GMT (335kb,D)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.