Mathematics > Quantum Algebra

The Hopf algebra of odd symmetric functions

Alexander P. Ellis, Mikhail Khovanov

(Submitted on 28 Jul 2011)

We consider a q-analogue of the standard bilinear form on the commutative ring of symmetric functions. The q=-1 case leads to a Z-graded Hopf superalgebra which we call the algebra of odd symmetric functions. In the odd setting we describe counterparts of the elementary and complete symmetric functions, power sums, Schur functions, and combinatorial interpretations of associated change of basis relations.

Comments:	41 pages, 12 figures
Subjects:	**Quantum Algebra (math.QA)**; Combinatorics (math.CO); Representation Theory (math.RT)
MSC classes:	05E05 (Primary), 16T05, 17A70 (Secondary)
Cite as:	**arXiv:1107.5610 [math.QA]**
	(or **arXiv:1107.5610v1 [math.QA]** for this version)

Submission history

From: Alexander Ellis [view email]

[v1] Thu, 28 Jul 2011 00:24:32 GMT (55kb)

Which authors of this paper are endorsers?