

arXiv.org > math > arXiv:1107.0537

Mathematics > Combinatorics

Co-quasi-invariant spaces for finite complex reflection groups

Jean-Christophe Aval (LaBRI), François Bergeron (LaCIM)

(Submitted on 4 Jul 2011 (v1), last revised 14 Oct 2011 (this version, v2))

We study, in a global uniform manner, the quotient of the ring of polynomials in I sets of n variables, by the ideal generated by diagonal quasi-invariant polynomials for general permutation groups W=G(r,n). We show that, for each such group W, there is an explicit universal symmetric function that gives the N^AI-graded Hilbert series for these spaces. This function is universal in that its dependance on I only involves the number of variables it is calculated with. We also discuss the combinatorial implications of the observed fact that it affords an expansion as a positive coefficient polynomial in the complete homogeneous symmetric functions.

Subjects: Combinatorics (math.CO)

Cite as: arXiv:1107.0537 [math.CO] (or arXiv:1107.0537v2 [math.CO] for this version)

Submission history

From: Jean-Christophe Aval [view email] [v1] Mon, 4 Jul 2011 06:11:42 GMT (18kb) [v2] Fri, 14 Oct 2011 15:10:41 GMT (17kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

 Search or Article-id
 (Help | Advanced search)

 All papers
 Go!

 All papers
 Go!

 Download:
 • PDF

 • PDF
 • PostScript

 • Other formats
 • Other formats

 Current browse context:
 math.CO

 < prev | next >
 new | recent | 1107

 Change to browse by:
 math

