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Co-quasi-invariant spaces for finite complex reflection groups

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(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 l 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^l-graded Hilbert series for these spaces. This function is universal in that its dependance on l 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)

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