
Modular Representation Theory New Trends

modular representations, old and new - modular representation theory (new) lie theory new modular representation theory connects decomposition numbers for symmetric groups, hecke algebras, with lie theory. idea of "categorification": replace the action of a group or algebra on a vector space by the action of functors on the grothendieck group of a suitable abelian category. **g-algebras and modular representation theory - infoscience** - the theory of g-algebras and to show how this theory is used to solve various problems in representation theory. signi cant results have been obtained over the last 15 years by means of this approach, which also sheds new light on modular representation theory. so it appears that a need has arisen for an expository book on the subject. **applications of geometry to modular representation theory** - +3 new chapter in modular representation theory. g spech $(g;k) = jgj$ an affine algebraic variety. plan of the talk: cohomology geometric invariants local jordan type geometric invariants some structure to representations 8/27 **perverse sheaves and modular representation theory - accueil** - perverse sheaves and modular representation theory 3 doing so, fiebig is able to give a new proof of the celebrated lusztig conjecture with an explicit bound on the characteristic. the third theorem to be discussed is centered around the geometry of the variety n of nilpotent elements of a lie algebra g , known as the nilpotent cone. **the modular representation theory of finite groups david a ...** - the best early applications of character theory to simple groups. modular representation theory, the study of representations over fields of characteristic other than zero, was started with leonhard eugene dickson, who coined the term 'modular' representa-tions. **p*-theory and modular representation theory** - indicate that $0, \&g)$ may be viewed as the generalized $\$$ -core in modular representation theory. from this point of view it is worth paying more attention to this group. thus the aim of this note is to polish the theory around $o1, (g)$ and to see the connection with $o,.(g)$ in a new light. **modular functor and representation theory of at a rational ...** - modular functor and representation theory of sld_2 at a rational level boris feigin landau institute for theoretical physics feodor malikov department of mathematics, university of southern california abstract we define a new modular functor based on kac-wakimoto admissible representa-tions and the corresponding d -module on the moduli space ... **modular representations of symmetric groups: an overview** - modular representations (classical) main problems some main problems of modular representation theory: describe the blocks as sets of characters, or as algebras describe the irreducible modular representations, e.g. their degrees find the decomposition matrix d , the transition matrix between ordinary and brauer characters. **quivers and the modular representation theory - ora.ox** - language of group theory without comment: any gaps can be filled in by reference to [15], [16], which in fact also gives an account of ordinary and modular representation theory. it should be noted that, for typographical reasons, the only piece of non-standard notation we use is the symbol ":" to denote a semidirect product. **modular representation theory and geometry** - modular representation theory and geometry 3 to the context of an arbitrary quantum group, the map fr is constructed by first producing its retriction to the "plus part" u_+ , and then extending using the tri- angular decomposition of u . **modular representation theory of finite groups** - strategies of modular representation theory. its content was taught during a course lasting the full academic year 2010/2011 at münster. some basic algebra together with the semisimple case were assumed to be known, although all facts to be used are restated (without proofs) in the text. otherwise the book is entirely self-contained. **modular representation theory, alcove ... - dtubbenhauer** - modular representation theory, alcove combinatorics and a category of sheaves zurich 2018 martina lanini abstract. these are notes for a minicourse held during the workshop "in-teractions of low-dimensional topology and "higher" representation theory" (zuric h, september 17{21, 2018), organised by daniel tubbenhauer. **iwasawa theory, projective modules, and modular ...** - which occur naturally in iwasawa theory for an elliptic curve e . modular representation theory for the group Δ plays a crucial role in this study. it is necessary to make a certain assumption about the vanishing of a μ -invariant. we then study λ -invariants $\lambda e(\sigma)$, where σ varies over the absolutely irreducible representations of Δ . **modular permutation representations(I)** - a modular theory for permutation representations and their ... components of the permutation module over a p -adic ring, modular characters of the centralizer ring, and the action of normalizers of p -subgroups p on the fixed points of ... theory provides new insight into the relation of btayet's theory of blocks to green's work on ... **[hal-00354963, v1] perverse sheaves and modular ...** - perverse sheaves and modular representation theory 3 doing so, fiebig is able to give a new proof of the celebrated l usztig conjecture with an explicit bound on the characteristic. the third theorem to be discussed is centered around the geom etry of the variety n of nilpotent elements of a lie algebra g , known as the nilpotent cone.

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