
Cohomology Of Drinfeld Modular Varieties Part 2

Automorphic Forms Trace Formulas And Langlands Co

intersection cohomology of drinfeld's ... - arxiv - intersection cohomology of drinfeld's compactifications 3 here we are dealing with the following remarkable phenomenon: the stack bun_p is defined via the global curve x and it classifies p -bundles on our curve which have **cohomology for drinfeld doubles of some infinitesimal ...** - cohomology for drinfeld doubles of some infinitesimal group schemes eric friedlander and cris negron abstract. consider a field k of characteristic $p > 0$, $g(r)$ the r -th frobenius kernel of a smooth algebraic group g , $\text{dg}(r)$ the drinfeld double of $g(r)$, and M a finite dimensional $\text{dg}(r)$ -module. we prove that the cohomology algebra $H^*(\text{dg}, M)$ (drinfeld modules - bu - are rank 2, in the appropriate sense). furthermore, drinfeld modules can be any rank whatsoever; there is no structure that we know of which is an analogue of a rank 3 drinfeld module over q . in later work, drinfeld extended his notion to a rather more general gadget called a *shtuka*. later, laurent la orgue used the cohomology of moduli **thederham cohomology of drinfeld's half space** - thederham cohomology of drinfeld's half space sascha orlik (communicated by peterschneider) abstract. let $X \subset \mathbb{P}^1_k$ be drinfeld's half space over a p -adic field k . the de rham cohomology of X was first computed by schneider and stuhler [20]. afterwards there were given different proofs by alon, de shalit, iovita and spiess [1, 5, 15 ... **cohomology of drinfeld modular varieties - download ebooks** - cohomology of drinfeld modular varieties ebook cohomology of drinfeld modular varieties currently available at orgulhoxepa for review only, if you need complete ebook cohomology of drinfeld modular varieties please fill out registration form to access in our databases. summary : cohomology of drinfeld modular varieties ebook cohomology of ... **differential characters of drinfeld modules and de rham ...** - of interesting p -modular functions on the moduli of drinfeld modules. it also leads to a canonical subspace inside the de rham cohomology of a drinfeld module over a p -base. this subspace has a canonical semi-linear frobenius operator on it. 1. introduction the aim of this paper is to study the group of p -characters of drinfeld modules. **classification of quantum groups and belavin-drinfeld ...** - stating that the belavin-drinfeld cohomology associated to the drinfeld-jimbo r -matrix is trivial for any simple complex lie algebra g . we also define the quantum belavin-drinfeld cohomology and formulate a second conjecture about the existence of a natural correspondence between classical and quantum cohomologies. **p -adic derived de rham cohomology** - p -adic derived de rham cohomology bhargav bhatt abstractis paper studies the derived de rham cohomology of \mathbb{F}_p and p -adic algebras, and is inspired by beilinson's work [bei11b]. we construct a natural isomorphism between derived de rham cohomology and crystalline cohomology for **belavin-drinfeld solutions of the yang-baxter equation ...** - belavin-drinfeld solutions of the yang-baxter equation: galois... 5 definition 4.4 let $\text{Hbd}(g, \text{rbd})$ denote the set of equivalence classes of cocycles in $\text{Zbd}(g, \text{rbd})$. we call this set the belavin-drinfeld cohomology associated to (g, rbd) . the belavin-drinfeld cohomology is said to be trivial if all cocycles are equivalent to the identity, and non-trivial otherwise. **frobenius actions on the de rham cohomology of drinfeld ...** - transactions of the american mathematical society volume 363, number 6, june 2011, pages 3167-3183 s 0002-9947(2011)05422-x article electronically published on january 27, 2011 **vanishing of cohomology associated to quantized drinfeld ...** - cohomology of the brst complex of the quantized drinfeld-sokolov reduction for $L_{\pm n}$ ("+" and "-" reduction) associated to v ([6, 9, 8]). feign-frenkel [6] canonically associated a w -algebra with g via this cohomology: let V_{κ} be the g -module of level $\kappa - \hbar v$ induced from C_{κ} , the trivial representation **erratum to: intersection cohomology of drinfeld's compact ...** - following drinfeld, one introduces a relative compactification bun_p of bun_g along the fibers of the natural projection $\text{bun}_p \rightarrow \text{bun}_g$. the resulting stack bun_p is singular, and the goal of the paper is to study its singularities. we find a local model for bun_p , which allows us to compute the intersection cohomology sheaf ic_{bun_p} **on the p -adic cohomology of the lubin-tate tower - uni-bonn** - on the p -adic cohomology of the lubin-tate tower 3 is in a suitable sense a $GL_n(\mathbb{F})$ -torsor; however, it takes a little bit of effort to make this statement precise, and we do not do so here. however, for any smooth GL_n **differential characters of drinfeld modules and de rham ...** - of drinfeld modules. it also leads to a canonical f -crystal equipped with a map to the de rham cohomology of the drinfeld module. this f -crystal is of a differential-algebraic nature, and the relation to the classical cohomological realizations is presently not clear. 1. introduction **constructing de rham-witt complexes on a budget (draft ...** - constructing de rham-witt complexes on a budget (draft version) 3 1. introduction 1.1. the de rham-witt complex. let X be a smooth algebraic variety defined over a field k . the algebraic de rham cohomology $H^*(X, \mathbb{Z})$ is defined as the hypercohomology of the de rham complex $0 \rightarrow \Omega^0(X) \rightarrow \Omega^1(X) \rightarrow \Omega^2(X) \rightarrow \dots$ **an eichler-shimura isomorphism over function fields between ...** - an eichler-shimura isomorphism over function fields between drinfeld modular forms and cohomology classes of crystals by gebhard boeckle eth zur" ich, d-math r"amistrasse 101 8092 zuri" ch switzerland e-mail: boeckle@mathhz revised, december 19, 2002 1. contents introduction 4 notation 11 1 drinfeld modular varieties, the algebraic ... **equivariant vector bundles and rigid cohomology on ...** - • the p -adic cohomology of drinfeld's upper half space over a finite field k was computed by orlik [42] as a representation of the group of k -rational points of the general linear group over k and as a galois representation. in particular, orlik's complex, which will be

used extensively in **kummer theory of drinfeld modules - people** - contents 1 introduction 5 2 ingredients from the theory of drinfeld modules 9 3 an ingredient from group cohomology 12 4 setting 15 5 an a p-linear independence 24 6 a p-adic result of kummer-type 28 7 an adelic result of kummer-type 35 **on the geometry and cohomology of some simple shimura ...** - on the geometry and cohomology of some simple shimura varieties michael harris 1 department of mathematics, university of paris 7, paris, france. richard taylor 2 department of mathematics, harvard university, cambridge, ma 02138, u.s.a. august 30, 1999 1institut de math ´ematiques de jussieu, u.m.r. 7586 du cnrs **a resolution of singularities for drinfeld's compacti ...** - a resolution of singularities for drinfeld's compacti cation by stable maps justin campbell june 6, 2016 abstract **drinfeld's relative compacti cation plays a basic role in the theory of automorphic sheaves, and its singularities encode representation-theoretic information in the form of intersection cohomology.** we **cohomology of finite dimensional pointed hopf algebras** - cohomology of finite dimensional pointed hopf algebras m. mastnak, j. pevtsova, p. schauenburg, and s. witherspoon abstract. we prove finite generation of the cohomology ring of any finite di-mensional pointed hopf algebra, having abelian group of grouplike elements, under some mild restrictions on the group order. the proof uses the recent **quantum drinfeld hecke algebras - department of mathematics** - the poincar e-birkho -witt condition for quantum drinfeld hecke algebras to results in hochschild cohomology and deformation theory by naidu and witherspoon [29] in section 9. in section 10, we discuss groups which act as automorphisms on the co-ordinate ring of a quantum plane and classify all quantum drinfeld hecke algebras in two dimensions. **cohomology and massless fields* - researchgate** - cohomology and massless fields 307 einstein's equations). in addition, there are algorithms for generating solutions of nonlinear field equations with specific cohomological solutions of associated **cohomology of finite tensor categories: duality - math.mit** - cohomology of finite tensor categories: duality and drinfeld centers cris negron and julia yael plavnik abstract. this work concerns the nite generation conjecture for nite ten-sor categories (etingof and ostrik [24]), which proposes that for such a category c, the self-extension algebra of the unit $\text{ext } c(1;1)$ is a nitely generated alge- **the tangent complex and hochschild cohomology of -rings** - the tangent complex and hochschild cohomology of e n-rings john francis abstract. in this work, we study the deformation theory of en-rings and the en analogue of the tangent complex, or topological andr e-quillen cohomology. **on non-abelian lubin-tate theory and analytic cohomology** - langlands correspondence appears in the de rham cohomology of the lubin-tate tower (drinfeld tower). we show that a study of the de rham cohomology for perfectoid spaces reduces to a study of the analytic cohomology and we state a natural conjecture related to it. contents 1. introduction 1 2. modular curve at in nity 3 2.1. adic spaces 3 2.2. **hochschild homology of hopf algebras and free yetter ...** - hochschild homology of hopf algebras and free yetter-drinfeld resolutions of the counit julien bichon abstract. we show that if a and h are hopf algebras that have equivalent tensor categories of comodules, then one can transport what we call a free yetter-drinfeld resolution of the counit **wieslawa nizioł cohomology of p-adic stein spaces.** - p-adic (pro-) etale cohomology of p-adic stein spaces with semistable reduction over local rings of mixed characteristic from complexes of di erential forms. to illustrate possible applications, i will show how it allows us to compute p-adic etale cohomology of drinfeld half-space in any dimension and of its coverings in dimension one. this is ... **lie bialgebras real cohomology - heldermann-verlag** - lie algebra cohomology of g and where ad denotes the adjoint action of the lie algebra g on itself. remark . the drinfeld compatibility of lie brackets in the lie bialgebra g is equivalent to the condition that for each '2g , ' and ad' are drinfeld compatible. it is well known that the space of all inequivalent central extensions of a **central simple algebras and galois cohomology - assets** - central simple algebras and galois cohomology this book is the first comprehensive, modern introduction to the theory of central simple algebras over arbitrary fields. starting from the basics, it reaches such advanced results as the merkurjev-suslin theorem. this theorem is both the culmination of work **cohomology of drinfeld modular varieties part 2 ...** - the cohomology of drinfeld modular varieties part 2 automorphic forms trace formulas and langlands correspondence cambridge studies in advanced mathematics that you can take. and when you really need a book to read, pick this book as good reference. well..low is related ebooks that you can read : **hochschild homology of hopf algebras and free yetter ...** - hochschild homology of hopf algebras and free yetter-drinfeld resolutions of the counit julien bichon abstract. we show that if a and h are hopf algebras that have equivalent tensor categories of comodules, then one can transport what we call a free yetter-drinfeld resolution of the counit **finite generation of the cohomology rings of some pointed ...** - finite generation of the cohomology rings of some pointed hopf algebras van c. nguyen hood college, frederick md nguyen@hood joint work with xingting wang and sarah witherspoon **a poincare-birkhoff-witt theorem for quadratic algebras ...** - a poincare-birkhoff-witt theorem for quadratic algebras with group actions anne v. shepler and sarah witherspoon abstract. braverman, gaitsgory, polishchuk, and positselski gave necessary and su cient conditions for a nonhomogeneous quadratic algebra to satisfy the poincar e-birkho -witt property when its homogeneous version is koszul. **transcendence theory of drinfeld modules** - periods of drinfeld modules kernel of \exp^{\wedge} is a discrete free $f_q[\]$ -module \hat{c} 1of rank r. moreover $\exp^{\wedge}(z) = z y 6=0 2^{\wedge}(1 z)$: the nonzero elements in \hat{c} are the periods of the drinfeld module \hat{c} . they are all transcendental over k (1986). **drinfeld moduli schemes and automorphic forms: the theory ...** - drinfeld moduli schemes and automorphic forms: the theory of elliptic modules with applications

yuval z. flicker abstract. we develop drinfeld's theory of elliptic modules and their moduli schemes to establish the correspondence of irreducible continuous p -adic rank r representations of the weil (subgroup of the galois) group of a function field **cyclic homology - bccpan** - cyclic homology and rigid cohomology 18 october, 11:00-12:00 this is a report on joint work with joachim cuntz, ralf meyer and georg tamme. let v be a complete discrete valuation ring with residue field k . we develop a version of periodic cyclic homology for bornological v -algebras that is defined for not necessarily commutative algebras. **ucsd math faculty list** - , special values of global and p -adic L -functions, k -theory and etale cohomology, drinfeld modules etc.

education • ph.d. mathematics, ohio state university, 1996 awards and distinctions • 2015-2016 simons fellow in mathematics, harvard university • 2005 simion stoilow prize of the romanian academy of science **curriculum vitae mihai d. staic - institute of mathematics ...** - mihai d. staic, symmetric cohomology of groups in low dimension, archiv der math-ematik, 93 (2009), no. 3, 205{211. 18. florin panaite and mihai d. staic, generalized (anti) yetter-drinfeld modules as components of a braided t-category, israel journal of mathematics, 158 (2007), 349{365. **introduction - university of north texas** - drinfeld orbifold algebras a. v. shepler and s. witherspoon abstract. we define drinfeld orbifold algebras as iterated algebras deforming the skew group algebra (semi-direct product) arising from the action of a finite group **on and around the drinfeld double - im pan** - and a yetter-drinfeld module is an anti-yetter-drinfeld module. a module comodule m is called stable if ... the stable anti-yetter-drinfeld modules were discovered as coefficients of hopf-cyclic cohomology. anti-drinfeld double let h be a finite-dimensional hopf algebra. the formula **shtuka cohomology and special values of goss l-functions** - 4. drinfeld modules 158 5. drinfeld's construction 160 chapter 8. the motive and the hom shtuka 165 1. hochschild cohomology in general 166 2. hochschild cohomology of coefficient rings 166 3. function spaces 167 4. the exponential map 173 5. function spaces and drinfeld modules 175 6. the main lemma 178 7. structure of the hom shtuka 179 8. **oberwolfach seminar: syntomic cohomology and theory - mfo** - (4) computation of (pro)- \acute{e} tale cohomology of rigid analytic spaces via syntomic cohomology. analytic curves, general stein spaces. (5) etale cohomology of coverings of drinfeld half-plane and its relation to p -adic local langlands correspondence. (6) etale cohomology of drinfeld half-spaces of arbitrary dimension. introductory reading: **k1 of products of drinfeld modular curves and special ...** - k1 of products of drinfeld modular curves and special values of L -functions ramesh sreekantan abstract in [be 84] beilinson obtained a formula relating the special value of the L -function of h^2 of a product of modular curves to the regulator of an element of a motivic cohomology **cohomology of p-adic curves (joint with g. dospinescu, w ...** - cohomology of p -adic curves (joint with g. dospinescu, w. niziol) put $c := qc/p$, let l be a finite extension of q/p , and let $(m/n) \in \mathbb{Z}/n\mathbb{Z}$ be the drinfeld tower of coverings of $p^1/c \times_{np} 1/(q/p)$. theorem 1. (cdn): for v an irreducible l -representation of g **hochschild cohomology and graded hecke algebras** - cohomology and algebraic deformation theory to address a natural question: when and what kinds of graded hecke algebras may be defined for $g(r,1,n)$? although drinfeld's construction only yields trivial graded hecke algebras for $g(r,1,n)$ in general, ram and the first author [22] constructed a novel graded **classification of quantum groups and belavin-drinfeld ...** - belavin-drinfeld cohomology. another intriguing discovery of our paper is that the belavin-drinfeld cohomology of the algebras of type d_{2n+1} is substantially different from other types of the classical lie algebras. we hope that our results, like the classification of simple lie algebras, will find many applications-

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