

COMPACTIFICATION OF LEVEL MAPS OF MODULI SPACES OF DRINFELD SHTUKAS

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ABSTRACT. We define Drinfeld level structures for Drinfeld shtukas of any rank and show that their moduli spaces are regular and admit finite flat level maps. In particular, the moduli spaces of Drinfeld shtukas with Drinfeld $\Gamma_0(p^n)$ -level structures provide a good integral model and relative compactification of the moduli space of shtukas with naive $\Gamma_0(p^n)$ -level defined using shtukas for dilated group schemes.

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1. INTRODUCTION

Moduli spaces of shtukas are function field analogues of Shimura varieties and thus play a central role in the Langlands programme over function fields. While a lot of progress has been made in understanding the geometry of moduli spaces of shtukas for general reductive groups with parahoric level, compare for example [AH14], [AH19], [BS18], [YZ19] and [Zha14], little is known for deeper level structures.

The goal of this work is to study deeper level structures in the case of Drinfeld shtukas (that means GL_r -shtukas for some fixed $r \geq 1$ with two legs bounded by the minuscule cocharacters $(0, \dots, 0, -1)$ and $(1, 0, \dots, 0)$). More explicitly, we define for all $n \geq 0$ an analogue of $\Gamma_0(p^n)$ -level structures on elliptic curves that behaves well at the place of bad reduction. Let us explain the construction in more detail.

Let X be a smooth, projective and geometrically connected curve over a finite field $\mathbb{F}_q$. Let us fix an $\mathbb{F}_q$ -rational point ∞ of X and let us denote $X' = X \setminus \{\infty\}$. A *Drinfeld shtuka* of rank r (with pole fixed at ∞) over a scheme S is given by the data $\underline{\mathcal{E}} = (x, \mathcal{E}, \varphi)$, where

- $x \in X'(S)$ is the characteristic section (also called log or psw),
- $\mathcal{E}$ is a rank r vector bundle on X_S and
- $\varphi: \sigma^* \mathcal{E}|_{X_S \cup (T_+ \cup T_\infty)} \xrightarrow{\sim} \mathcal{E}|_{X_S \cup (T_+ \cup T_\infty)}$ is an isomorphism of $\mathcal{O}_{X_S}$ -modules away from the graphs Γ_x of x and Γ_∞ of ∞ , such that φ extends to a map $\varphi: \sigma^* \mathcal{E}|_{X'} \rightarrow \mathcal{E}|_{X'}$ with $\mathrm{coker}(\varphi)$ supported on Γ_x and invertible on its support, and φ^{-1} extends to a map $\varphi^{-1}: \mathcal{E}|_{X \setminus \Gamma_x} \rightarrow \sigma^* \mathcal{E}|_{X \setminus \Gamma_x}$ with $\mathrm{coker}(\varphi^{-1})$ supported on ∞ and invertible on its support.

We denote by Sht_r the stack of Drinfeld shtukas of rank r , it is a Deligne-Mumford stack locally of finite type over $\mathbb{F}_q$. The projection to the characteristic section defines a map $\mathrm{Sht}_r \rightarrow X'$, which is smooth of relative dimension $(2r - 2)$. Moduli spaces of Drinfeld shtukas are used with great success in [Lad02] to establish the Langlands correspondence for GL_r .

Drinfeld shtukas in this sense are a generalisation of Drinfeld modules (compare Proposition 3.3 for a precise statement). Moduli spaces of rank 2 Drinfeld modules can be thought of as a function field analogue of the moduli space of elliptic curves.

On The Compactification Of Moduli Spaces

Sergei K. Lando, Alexander K. Zvonkin



On The Compactification Of Moduli Spaces:

On the Compactification of Moduli Spaces for Algebraic $K3$ Surfaces Francesco Scattone, 1987 This paper is concerned with the problem of describing compact moduli spaces for algebraic $K3$ surfaces of given degree $2k$ **On the Compactification of Moduli Spaces for Algebraic $K3$** Francesco Scattone, 1987 *Compactifying Moduli Spaces* Paul Hacking, Radu Laza, Dragos Oprea, 2016-02-04 This book focusses on a large class of objects in moduli theory and provides different perspectives from which compactifications of moduli spaces may be investigated Three contributions give an insight on particular aspects of moduli problems In the first of them various ways to construct and compactify moduli spaces are presented In the second some questions on the boundary of moduli spaces of surfaces are addressed Finally the theory of stable quotients is explained which yields meaningful compactifications of moduli spaces of maps Both advanced graduate students and researchers in algebraic geometry will find this book a valuable read *Compactifications of Moduli Spaces* Zuniga Jose Javier, 2007 *A Compactification of Moduli Spaces of Monopoles* R. G. Wang, 1994 **Moduli Spaces of Abelian Surfaces** Klaus Hulek, Constantin Kahn, Steven H. Weintraub, 2011-05-03 No detailed description available for Moduli Spaces of Abelian Surfaces *Compactifying Moduli Spaces for Abelian Varieties* Martin C. Olsson, 2008-07-25 This volume presents the construction of canonical modular compactifications of moduli spaces for polarized Abelian varieties possibly with level structure building on the earlier work of Alexeev Nakamura and Namikawa Handbook of Teichmüller Theory Athanase Papadopoulos, 2007 This multi volume set deals with Teichmüller theory in the broadest sense namely as the study of moduli space of geometric structures on surfaces with methods inspired or adapted from those of classical Teichmüller theory The aim is to give a complete panorama of this generalized Teichmüller theory and of its applications in various fields of mathematics The volumes consist of chapters each of which is dedicated to a specific topic The volume has 19 chapters and is divided into four parts The metric and the analytic theory uniformization Weil Petersson geometry holomorphic families of Riemann surfaces infinite dimensional Teichmüller spaces cohomology of moduli space and the intersection theory of moduli space The group theory quasi homomorphisms of mapping class groups measurable rigidity of mapping class groups applications to Lefschetz fibrations affine groups of flat surfaces braid groups and Artin groups Representation spaces and geometric structures trace coordinates invariant theory complex projective structures circle packings and moduli spaces of Lorentz manifolds homeomorphic to the product of a surface with the real line The Grothendieck Teichmüller theory dessins d'enfants Grothendieck's reconstruction principle and the Teichmüller theory of the solenoid This handbook is an essential reference for graduate students and researchers interested in Teichmüller theory and its ramifications in particular for mathematicians working in topology geometry algebraic geometry dynamical systems and complex analysis The authors are leading experts in the field **Compactification of Moduli Spaces and Mirror Symmetry** Yuecheng Zhu, 2015 Olsson gives modular compactifications of the moduli of toric pairs and the moduli of

polarized abelian varieties $A_{g,\delta}$ in [Ols08]. We give alternative constructions of these compactifications by using mirror symmetry. Our constructions are toroidal compactifications. The data needed for a toroidal compactification is a collection of fans. We obtain the collection of fans from the Mori fans of the minimal models of the mirror families. Moreover we reinterpret the compactification of $A_{g,\delta}$ in terms of KSBA stable pairs. We find that there is a canonical set of divisors S_{K2} associated with each cusp. Near the cusp a polarized semiabelic scheme $X_{G,L}$ is the canonical degeneration given by the compactification if and only if $X_{G,\theta}$ is an object in $\mathcal{A}_P$ for any $\theta \in S_{K2}$. The two compactifications presented here are a part of a general program of applying mirror symmetry to the compactification problem of the moduli of Calabi-Yau manifolds. This thesis contains the results in [Zhu14b] and [Zhu14a].

The Geometry of Four-manifolds S. K. Donaldson, P. B. Kronheimer, 1997 This book provides the first lucid and accessible account of the modern study of the geometry of four manifolds. It presents both a thorough treatment of the main lines of the developments and also a wide ranging treatment of relevant topics from geometry and global analysis.

Graphs on Surfaces and Their Applications Sergei K. Lando, Alexander K. Zvonkin, 2013-04-17 Graphs drawn on two dimensional surfaces have always attracted researchers by their beauty and by the variety of difficult questions to which they give rise. The theory of such embedded graphs which long seemed rather isolated has witnessed the appearance of entirely unexpected new applications in recent decades ranging from Galois theory to quantum gravity models and has become a kind of a focus of a vast field of research. The book provides an accessible introduction to this new domain including such topics as coverings of Riemann surfaces, the Galois group action on embedded graphs, Grothendieck's theory of dessins d'enfants, the matrix integral method, moduli spaces of curves, the topology of meromorphic functions and combinatorial aspects of Vassiliev's knot invariants and in an appendix by Don Zagier the use of finite group representation theory. The presentation is concrete throughout with numerous figures, examples including computer calculations and exercises and should appeal to both graduate students and researchers.

Topology And Teichmüller Spaces - Proceedings Of The 37th Taniguchi Symposium Sadayoshi Kojima, Kyoji Saito, Y Matsumoto, Mika Seppala, 1996-11-09 This proceedings is a collection of articles on Topology and Teichmüller Spaces. Special emphasis is being put on the universal Teichmüller space, the topology of moduli of algebraic curves, the space of representations of discrete groups, Kleinian groups and Dehn filling deformations, the geometry of Riemann surfaces and some related topics.

Quasiconformal Mappings, Riemann Surfaces, and Teichmüller Spaces Yunping Jiang, 2012 This volume contains the proceedings of the AMS Special Session on Quasiconformal Mappings, Riemann Surfaces and Teichmüller Spaces held in honor of Clifford J Earle from October 2-3, 2010 in Syracuse, New York. This volume includes a wide range of papers on Teichmüller theory and related areas. It provides a broad survey of the present state of research and the applications of quasiconformal mappings, Riemann surfaces, complex dynamical systems, Teichmüller theory and geometric function theory. The papers in this volume reflect the directions of

research in different aspects of these fields and also give the reader an idea of how Teichmüller theory intersects with other areas of mathematics

Winter School on Mirror Symmetry, Vector Bundles and Lagrangian Submanifolds Cumrun Vafa, Shing-Tung Yau, 2001 The 16 articles presented here are based on lectures given at the Winter School on Mirror Symmetry held at Harvard University in January 1999 They represent recent progress and new directions in the field Specific topics include Floer homology and mirror symmetry special Lagrange fibrations special Lagrangian submanifolds and local mirror symmetry at higher genus Other topics include homological mirror symmetry with higher products categorical mirror symmetry in the elliptic curve Lagrangian torus fibration of quintic hypersurfaces mirror symmetry and T duality and mirror symmetry and actions of Braid groups on derived categories This work lacks a subject index c Book News Inc *The Ball and Some Hilbert Problems* Rolf-Peter Holzapfel, 2012-12-06 As an interesting object of arithmetic algebraic and analytic geometry the complex ball was born in a paper of the French Mathematician E PICARD in 1883 In recent developments the ball finds great interest again in the framework of SHIMURA varieties but also in the theory of diophantine equations asymptotic FERMAT Problem see ch VI At first glance the original ideas and the advanced theories seem to be rather disconnected With these lectures I try to build a bridge from the analytic origins to the actual research on effective problems of arithmetic algebraic geometry The best motivation is HILBERT'S far reaching program consisting of 23 problems Paris 1900 one should succeed in finding and discussing those functions which play the part for any algebraic number field corresponding to that of the exponential function in the field of rational numbers and of the elliptic modular functions in the imaginary quadratic number field This message can be found in the 12th problem Extension of KRONECKER'S Theorem on Abelian Fields to Any Algebraic Realm of Rationality standing in the middle of HILBERT'S program It is dedicated to the construction of number fields by means of special value of transcendental functions of several variables The close connection with three other HILBERT problems will be explained together with corresponding advanced theories which are necessary to find special effective solutions namely 7 Irrationality and Transcendence of Certain Numbers 21 Geometric Theory of Singular Phenomena in Partial Differential Equations Jean Pierre Bourguignon, Paolo de Bartolomeis, Mariano Giaquinta, 1998-05-28 Featuring contributions from a group of outstanding mathematicians this book covers the most recent advances in the geometric theory of singular phenomena of partial differential equations occurring in real and complex differential geometry Gathering together papers from a workshop held in Cortona Italy this volume will be of great interest to all those whose research interests lie in real and complex differential geometry partial differential equations and gauge theory

Classical Mirror Symmetry Masao Jinzenji, 2018-04-18 This book furnishes a brief introduction to classical mirror symmetry a term that denotes the process of computing Gromov Witten invariants of a Calabi Yau threefold by using the Picard Fuchs differential equation of period integrals of its mirror Calabi Yau threefold The book concentrates on the best known example the quintic hypersurface in 4 dimensional projective space and its mirror manifold First there is a brief

review of the process of discovery of mirror symmetry and the striking result proposed in the celebrated paper by Candelas and his collaborators Next some elementary results of complex manifolds and Chern classes needed for study of mirror symmetry are explained Then the topological sigma models the A model and the B model are introduced The classical mirror symmetry hypothesis is explained as the equivalence between the correlation function of the A model of a quintic hyper surface and that of the B model of its mirror manifold On the B model side the process of construction of a pair of mirror Calabi Yau threefold using toric geometry is briefly explained Also given are detailed explanations of the derivation of the Picard Fuchs differential equation of the period integrals and on the process of deriving the instanton expansion of the A model Yukawa coupling based on the mirror symmetry hypothesis On the A model side the moduli space of degree d quasimaps from $\mathbb{CP}^1$ with two marked points to $\mathbb{CP}^4$ is introduced with reconstruction of the period integrals used in the B model side as generating functions of the intersection numbers of the moduli space Lastly a mathematical justification for the process of the B model computation from the point of view of the geometry of the moduli space of quasimaps is given The style of description is between that of mathematics and physics with the assumption that readers have standard graduate student backgrounds in both disciplines

Geometry and Topology of Manifolds Hans U. Boden, This book contains expository papers that give an up to date account of recent developments and open problems in the geometry and topology of manifolds along with several research articles that present new results appearing in published form for the first time The unifying theme is the problem of understanding manifolds in low dimensions notably in dimensions three and four and the techniques include algebraic topology surgery theory Donaldson and Seiberg Witten gauge theory Heegaard Floer homology contact and symplectic geometry and Gromov Witten invariants The articles collected for this volume were contributed by participants of the Conference Geometry and Topology of Manifolds held at McMaster University on May 14-18 2004 and are representative of the many excellent talks delivered at the conference

Compactifications of Symmetric and Locally Symmetric Spaces Armand Borel, Lizhen Ji, 2006-07-25 Noncompact symmetric and locally symmetric spaces naturally appear in many mathematical theories including analysis representation theory nonabelian harmonic analysis number theory automorphic forms algebraic geometry modular and algebraic topology cohomology of discrete groups In most applications it is necessary to form an appropriate compactification of the space The literature dealing with such compactifications is vast The main purpose of this book is to introduce uniform constructions of most of the known compactifications with emphasis on their geometric and topological structures The book is divided into three parts Part I studies compactifications of Riemannian symmetric spaces and their arithmetic quotients Part II is a study of compact smooth manifolds Part III studies the compactification of locally symmetric spaces Familiarity with the theory of semisimple Lie groups is assumed as is familiarity with algebraic groups defined over the rational numbers in later parts of the book although most of the pertinent material is recalled as presented Otherwise the book is a self contained reference aimed at graduate students and research

mathematicians interested in the applications of Lie theory and representation theory to diverse fields of mathematics

Analytic and Algebraic Geometry Anilatmaja Aryasomayajula,Indranil Biswas,Archana S. Morye,A. J.

Parameswaran,2017-09-08 This volume is an outcome of the International conference held in Tata Institute of Fundamental Research and the University of Hyderabad There are fifteen articles in this volume The main purpose of the articles is to introduce recent and advanced techniques in the area of analytic and algebraic geometry This volume attempts to give recent developments in the area to target mainly young researchers who are new to this area Also some research articles have been added to give examples of how to use these techniques to prove new results

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