

Mathematical  
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and  
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# Cluster Algebras and Poisson Geometry

**Michael Gekhtman**  
**Michael Shapiro**  
**Alek Vainshtein**



American Mathematical Society

# Cluster Algebra And Poisson Geometry Mathematical Surveys And Monographs

**K. R. Goodearl, M. T. Yakimov**



## **Cluster Algebra And Poisson Geometry Mathematical Surveys And Monographs:**

**Cluster Algebras and Poisson Geometry** Michael Gekhtman, Michael Shapiro, Alek Vainshtein, 2010 The first book devoted to cluster algebras this work contains chapters on Poisson geometry and Schubert varieties an introduction to cluster algebras and their main properties and geometric aspects of the cluster algebra theory in particular on its relations to Poisson geometry and to the theory of integrable systems [A Plethora of Cluster Structures on  \$SL\_n\$](#)  M. Gekhtman, M.

Shapiro, A. Vainshtein, 2024-06-07 View the abstract **Quantum Cluster Algebra Structures on Quantum Nilpotent Algebras** K. R. Goodearl, M. T. Yakimov, 2017-04-25 All algebras in a very large axiomatically defined class of quantum nilpotent algebras are proved to possess quantum cluster algebra structures under mild conditions Furthermore it is shown that these quantum cluster algebras always equal the corresponding upper quantum cluster algebras Previous approaches to these problems for the construction of quantum cluster algebra structures on quantized coordinate rings arising in Lie theory were done on a case by case basis relying on the combinatorics of each concrete family The results of the paper have a broad range of applications to these problems including the construction of quantum cluster algebra structures on quantum unipotent groups and quantum double Bruhat cells the Berenstein Zelevinsky conjecture and treat these problems from a unified perspective All such applications also establish equality between the constructed quantum cluster algebras and their upper counterparts [Representation Theory, Mathematical Physics, and Integrable Systems](#) Anton Alekseev, Edward

Frenkel, Marc Rosso, Ben Webster, Milen Yakimov, 2022-02-05 Over the course of his distinguished career Nicolai Reshetikhin has made a number of groundbreaking contributions in several fields including representation theory integrable systems and topology The chapters in this volume compiled on the occasion of his 60th birthday are written by distinguished mathematicians and physicists and pay tribute to his many significant and lasting achievements Covering the latest developments at the interface of noncommutative algebra differential and algebraic geometry and perspectives arising from physics this volume explores topics such as the development of new and powerful knot invariants new perspectives on enumerative geometry and string theory and the introduction of cluster algebra and categorification techniques into a broad range of areas Chapters will also cover novel applications of representation theory to random matrix theory exactly solvable models in statistical mechanics and integrable hierarchies The recent progress in the mathematical and physical aspects of deformation quantization and tensor categories is also addressed Representation Theory Mathematical Physics and Integrable Systems will be of interest to a wide audience of mathematicians interested in these areas and the connections between them ranging from graduate students to junior mid career and senior researchers **Exotic Cluster Structures**

**on  $SL_n$ : The Cremmer-Gervais Case** M. Gekhtman, M. Shapiro, A. Vainshtein, 2017-02-20 This is the second paper in the series of papers dedicated to the study of natural cluster structures in the rings of regular functions on simple complex Lie groups and Poisson Lie structures compatible with these cluster structures According to our main conjecture each class in

the Belavin Drinfeld classification of Poisson Lie structures on corresponds to a cluster structure in The authors have shown before that this conjecture holds for any in the case of the standard Poisson Lie structure and for all Belavin Drinfeld classes in In this paper the authors establish it for the Cremmer Gervais Poisson Lie structure on which is the least similar to the standard one

**Interactions of Quantum Affine Algebras with Cluster Algebras, Current Algebras and Categorification** Jacob Greenstein, David Hernandez, Kailash C. Misra, Prasad Senesi, 2022-03-11 This volume collects chapters that examine representation theory as connected with affine Lie algebras and their quantum analogues in celebration of the impact Vyjayanthi Chari has had on this area The opening chapters are based on mini courses given at the conference Interactions of Quantum Affine Algebras with Cluster Algebras Current Algebras and Categorification held on the occasion of Chari's 60th birthday at the Catholic University of America in Washington D C June 2018 The chapters that follow present a broad view of the area featuring surveys original research and an overview of Vyjayanthi Chari's significant contributions Written by distinguished experts in representation theory a range of topics are covered including String diagrams and categorification Quantum affine algebras and cluster algebras Steinberg groups for Jordan pairs Dynamical quantum determinants and Pfaffians Interactions of Quantum Affine Algebras with Cluster Algebras Current Algebras and Categorification will be an ideal resource for researchers in the fields of representation theory and mathematical physics

**Algebra, Geometry, and Physics in the 21st Century** Denis Auroux, Ludmil Katzarkov, Tony Pantev, Yan Soibelman, Yuri Tschinkel, 2017-07-27 This volume is a tribute to Maxim Kontsevich one of the most original and influential mathematicians of our time Maxim's vision has inspired major developments in many areas of mathematics ranging all the way from probability theory to motives over finite fields and has brought forth a paradigm shift at the interface of modern geometry and mathematical physics Many of his papers have opened completely new directions of research and led to the solutions of many classical problems This book collects papers by leading experts currently engaged in research on topics close to Maxim's heart Contributors S Donaldson A Goncharov D Kaledin M Kapranov A Kapustin L Katzarkov A Noll P Pandit S Pimenov J Ren P Seidel C Simpson Y Soibelman R Thorngren

**Modern Trends in Algebra and Representation Theory** David Jordan, Nadia Mazza, Sibylle Schroll, 2023-08-17 Expanding upon the material delivered during the LMS Autumn Algebra School 2020 this volume reflects the fruitful connections between different aspects of representation theory Each survey article addresses a specific subject from a modern angle beginning with an exploration of the representation theory of associative algebras followed by the coverage of important developments in Lie theory in the past two decades before the final sections introduce the reader to three strikingly different aspects of group theory Written at a level suitable for graduate students and researchers in related fields this book provides pure mathematicians with a springboard into the vast and growing literature in each area

**Infinite Analysis 2010** Atsuo Kuniba, 2011 **Poisson Geometry in Mathematics and Physics** Giuseppe Dito, 2008 This volume is a collection of articles by speakers at the Poisson 2006

conference The program for Poisson 2006 was an overlap of topics that included deformation quantization generalized complex structures differentiable stacks normal forms and group valued moment maps and reduction

**Log-canonical Poisson Structures and Non-commutative Integrable Systems** Nicholas Ovenhouse, 2019 Log canonical Poisson structures are a particularly simple type of bracket which are given by quadratic expressions in local coordinates They appear in many places including the study of cluster algebras A Poisson bracket is compatible with a cluster algebra structure if the bracket is log canonical with respect to each cluster In joint work with John Machacek we prove a structural result about such Poisson structures which justifies the use and significance of such brackets in cluster theory The result says that no rational coordinate changes can transform these brackets into a simpler form The pentagram map is a discrete dynamical system on the space of plane polygons first introduced by Schwartz in 1992 It was proved to be Liouville integrable by Schwartz Ovsienko and Tabachnikov in 2010 Gekhtman Shapiro and Vainshtein studied Poisson geometry associated to certain networks embedded in a disc or annulus and its relation to cluster algebras These Poisson structures are log canonical Later Gekhtman et al and Tabachnikov reinterpreted the pentagram map in terms of these networks and used the associated Poisson structures to give a new proof of integrability In 2011 Mari Beffa and Felipe introduced a generalization of the pentagram map to certain Grassmannians and proved it had a Lax representation We reinterpret this Grassmann pentagram map in terms of non commutative algebra in particular the double brackets of Van den Bergh and generalize the approach of Gekhtman et al to establish a non commutative version of integrability The integrability of the pentagram maps in both projective space and the Grassmannian follow from this more general algebraic system by projecting to representation spaces

*Lectures on Poisson Geometry* Marius Crainic, Rui Loja Fernandes, Ioan Mărcuț, 2021-10-14 This excellent book will be very useful for students and researchers wishing to learn the basics of Poisson geometry as well as for those who know something about the subject but wish to update and deepen their knowledge The authors philosophy that Poisson geometry is an amalgam of foliation theory symplectic geometry and Lie theory enables them to organize the book in a very coherent way Alan Weinstein University of California at Berkeley This well written book is an excellent starting point for students and researchers who want to learn about the basics of Poisson geometry The topics covered are fundamental to the theory and avoid any drift into specialized questions they are illustrated through a large collection of instructive and interesting exercises The book is ideal as a graduate textbook on the subject but also for self study Eckhard Meinrenken University of Toronto

**Mathematical Reviews**, 2002 *Poisson Geometry, Deformation Quantisation and Group Representations* Simone Gutt, John Rawnsley, Daniel Sternheimer, 2005-06-21 An accessible introduction to Poisson geometry suitable for graduate students

*Poisson Structures* Camille Laurent-Gengoux, Anne Pichereau, Pol Vanhaecke, 2012-08-27 Poisson structures appear in a large variety of contexts ranging from string theory classical quantum mechanics and differential geometry to abstract algebra algebraic geometry and representation theory In

each one of these contexts it turns out that the Poisson structure is not a theoretical artifact but a key element which unsolicited comes along with the problem that is investigated and its delicate properties are decisive for the solution to the problem in nearly all cases Poisson Structures is the first book that offers a comprehensive introduction to the theory as well as an overview of the different aspects of Poisson structures The first part covers solid foundations the central part consists of a detailed exposition of the different known types of Poisson structures and of the usually mathematical contexts in which they appear and the final part is devoted to the two main applications of Poisson structures integrable systems and deformation quantization The clear structure of the book makes it adequate for readers who come across Poisson structures in their research or for graduate students or advanced researchers who are interested in an introduction to the many facets and applications of Poisson structures

### **Poisson Algebraic Geometry in Representation Theory and Combinatorics**

Benjamin Thomas Webster,2007 *Poisson Structures and Their Normal Forms* Jean-Paul Dufour,Nguyen Tien

Zung,2006-01-17 The aim of this book is twofold On the one hand it gives a quick self contained introduction to Poisson geometry and related subjects On the other hand it presents a comprehensive treatment of the normal form problem in Poisson geometry Even when it comes to classical results the book gives new insights It contains results obtained over the past 10 years which are not available in other books Poisson Algebras and Poisson Manifolds K. H. Bhaskara,K.

Viswanath,1988

### **Nonlinear Poisson Brackets** Mihail Vladimirovi\_ Karasev,Viktor Pavlovi\_ Maslov,American

Mathematical Society,2012-06-06 This book deals with two old mathematical problems The first is the problem of constructing an analog of a Lie group for general nonlinear Poisson brackets The second is the quantization problem for such brackets in the semiclassical approximation which is the problem of exact quantization for the simplest classes of brackets These problems are progressively coming to the fore in the modern theory of differential equations and quantum theory since the approach based on constructions of algebras and Lie groups seems in a certain sense to be exhausted The authors main goal is to describe in detail the new objects that appear in the solution of these problems Many ideas of algebra modern differential geometry algebraic topology and operator theory are synthesized here The authors prove all statements in detail thus making the book accessible to graduate students Advances in Poisson Geometry Mario Garcia-Fernandez,David

Iglesias Ponte,Eva Miranda,Cédric Oms,Roberto Rubio,2025-08-24 This book presents recent advances in topics related to Poisson geometry originating from lectures given at the Poisson School held in 2022 at the CRM in Barcelona The purpose is to give both an introduction to this active field of research as well as highlight new trends in related topics The texts cover both classical results known to experts in the field as well as recent and previously unpublished mathematical results Graduate students and early stage researchers with basic knowledge in differential and symplectic geometry together with established researchers that are keen to dive into this rapidly growing field of research will find this book a useful resource

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