

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

2. The second step is to gather relevant information and data. This may involve research, consultation with experts, or collecting data from various sources.

3. The final step is to present the findings and conclusions in a clear and concise manner.

Cluster Algebra And Poisson Geometry Mathematical Surveys And Monographs

M. Gekhtman, M. Shapiro, A. Vainshtein



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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

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

A Plethora of Cluster Structures on SL_n M. Gekhtman, M. Shapiro, A. Vainshtein, 2024-06-07 View the abstract

[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

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 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

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

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