



cluster structure in  $\mathfrak{g}$ . 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  $\mathfrak{g}$ ,  $\mathfrak{h}$ . In this paper the authors establish it for the Cremmer–Gervais Poisson–Lie structure on  $\mathfrak{g}$ , which is the least similar to the standard one.

The author proves Kontsevich's form of the mirror symmetry conjecture for (on the symplectic geometry side) a quartic surface in  $\mathbb{C}^3$ .

Teaching, research, community engagement, and explorations in ways of knowing - Uvic fifty years on.

Dramatic societal changes have reshaped America's families. Young adults have delayed marriage, and cohabitation before marriage has become commonplace. One in three women giving birth is unmarried, and the proportion of children under 18 living in single-parent families rose from 23 to 31 percent between 1980 and 2000, reflecting increased rates of both nonmarital childbearing and divorce. This authoritative volume offers a blueprint for addressing some of the most important measurement issues in family research, and it points out potential pitfalls for researchers and students who may not be familiar with data quality issues. The Handbook of Measurement Issues in Family Research will appeal to scholars in the departments of psychology, sociology, and population studies, as well as researchers working in governmental agencies.

James Weldon Johnson's *Modern Soundscapes* provides an evocative and meticulously researched study of one of the best known and yet least understood authors of the New Negro Renaissance era. Johnson, familiar to many as an early civil rights leader active in the National Association for the Advancement of Colored People and an intentionally controversial writer on the subject of the significance of race in America, was one of the most prolific, wide-ranging, and yet elusive authors of twentieth-century African American literature. Johnson realized early in his writing career that he could draw attention to the struggles of African Americans by using unconventional literary methods such as the incorporation of sound into his texts. In this groundbreaking work, literary critic Noelle Morrisette examines how his literary representation of the extremes of sonic experience—functioning as either cultural violence or creative force—draws attention to the mutual contingencies and the interdependence of American and African American cultures. Moreover, Morrisette argues, Johnson represented these “American sounds” as a source of multiplicity and diversity, often developing a framework for the interracial transfer of sound. The lyricist and civil rights leader used sound as a formal aesthetic practice in and between his works, presenting it as an unbounded cultural practice that is as much an interracial as it is a racially distinct cultural history. Drawing on archival materials such as early manuscript notes and drafts of Johnson's unpublished and published work, Morrisette explores the author's complex aesthetic of sound, based on black expressive culture and cosmopolitan interracial experiences. This aesthetic evolved over the course of his writing life, beginning with his early Broadway musical comedy smash hits and the composition of *Autobiography of an Ex-Colored Man* (1912), and developing through his “real” autobiography, *Along This Way* (1933). The result is an innovative new interpretation of the works of one of the early twentieth century's most important and controversial writers and civil rights leaders.

This book contains recent developments in switching networks and applications, including classic topics, such as nonblocking and Benes conjecture, and new directions, such as optical switching networks and applications in VLSI designs. It provides the state of the art for researchers in computer networks and applied mathematics. Audience: Researchers in computer networks and applied mathematics. The book is appropriate for use in graduate courses.

This engagingly written introduction to the cognitive sciences examines the historical and contemporary issues, and research findings of the core cognitive science disciplines, including cognitive psychology, neuroscience, language, philosophy, and artificial intelligence. For each of the core disciplines of cognitive science, the historical development and classic research studies are presented in one chapter and current research development and issues follow in a second chapter. The student is given insight into the way each discipline has contributed to the growth of cognitive science and what directions research is taking in the future. This text assumes no background on the part of the reader. This book constitutes the thoroughly refereed post-conference proceedings of the 14th International Conference on Smart Card Research and Advanced Applications, CARDIS 2015, held in Bochum, Germany, in November 2015. The 17 revised full papers presented in this book were carefully reviewed and selected from 40 submissions. The focus of the conference was on all aspects of the design, development, deployment, validation, and application of smart cards and secure elements in secure platforms or systems.

The Commonwealth of Independent States (CIS) is a regional organization that formed during the breakup of the Soviet Union in 1991. It has few supranational powers, but aims to be more than a purely symbolic organization, nominally possessing coordinating powers in the realm of trade, finance, lawmaking, and security. As such, it is vital to examine this region and its economic and geopolitical impacts on the world. *Economic and Geopolitical Perspectives of the Commonwealth of Independent States and Eurasia* is a vital research publication that explores the importance and influence of the Commonwealth of Independent States and Eurasia in the twenty-first century. Highlighting a wide range of topics such as sovereign democracy, economic integration, and foreign policy, this book is geared toward business managers, economists, business professionals, entrepreneurs, business analysts, and researchers seeking current research on the effects of political organizations like the CIS on various regions.

In this paper the authors provide an extension of the theory of descent of Ginzburg-Rallis-Soudry to the context of essentially self-dual representations, that is, representations which are isomorphic to the twist of their own contragredient by some Hecke character. The authors' theory supplements the recent work of Asgari-Shahidi on the functorial lift from (split and quasisplit forms of)  $GS_{2n}$  to  $GL_{2n}$ .

This is the first comprehensive and contemporary history of the largest and most diverse public system of higher education in the United States. Serving over 2 million students annually—approximately one-quarter of the nation's community college undergraduates—California's 116 community colleges play an indispensable role in career and transfer education in North America and have maintained an outsized influence on the evolution of postsecondary education nationally. *A College for All Californians* chronicles the sector's emergence from K–12 institutions, its evolving mission and growth following World War II and the G.I. Bill For Education, the expansion of its ever-broadening mission, and its essential role in the 1960 Master Plan for Higher Education. Chapters cover California's junior and community colleges' development, mission, governance, faculty, finances, athletics, student support services, and more. It also examines the successes and ongoing political, financial, and educational challenges confronting this uniquely American educational experiment. Book Features: Encapsulates the evolution and contemporary status of our nation's largest and most diverse undergraduate education system. Examines how the colleges were influenced by the political, economic, and social issues of the day. Includes new historical information affecting postsecondary education in California. Analyzes some of the most important current and emerging issues that will continue to influence California's community colleges. Contributors: Carlos O. Turner Cortez, Michelle Fischthal, Jonathan Lightman, Jessica Luedtke, David W. Morse, Joe Newmyer, Mark Robinson, Leslie M. Salas.

The authors study the Cauchy problem for the one-dimensional wave equation  $\partial_t^2 u(t,x) - \partial_x^2 u(t,x) + V(x)u(t,x) = 0$ . The





14-18, 1988. The number of more than 200 participants from more than 20 countries all over the world and about 100 invited and contributed papers, well balanced between theory, numerical analysis and applications, do not leave any doubt that it was the right decision to start this cycle of conferences, of which the third will be organized in Sweden in 1990. This volume contains sixty eight original papers presented at the conference, twenty two of them dealing with the mathematical theory, e.g. existence, uniqueness, stability, behaviour of solutions, physical modelling by evolution equations. Twenty two articles in numerical analysis are concerned with stability and convergence to the physically relevant solutions such as schemes especially devised for treating shocks, contact discontinuities and artificial boundaries. Twenty four papers contain multidimensional computational applications to nonlinear waves in solids, flow through porous media and compressible fluid flow including shocks, real gas effects, multiphase phenomena, chemical reactions etc. The editors and organizers of the Second International Conference on Hyperbolic Problems would like to thank the Scientific Committee for the generous support of recommending invited lectures and selecting the contributed papers of the conference.

In this paper the authors start with the construction of the symplectic field theory (SFT). As a general theory of symplectic invariants, SFT has been outlined in Introduction to symplectic field theory (2000), by Y. Eliashberg, A. Givental and H. Hofer who have predicted its formal properties. The actual construction of SFT is a hard analytical problem which will be overcome by means of the polyfold theory due to the present authors. The current paper addresses a significant amount of the arising issues and the general theory will be completed in part II of this paper. To illustrate the polyfold theory the authors use the results of the present paper to describe an alternative construction of the Gromov-Witten invariants for general compact symplectic manifolds.

Let  $G$  be a simple classical algebraic group over an algebraically closed field of characteristic with natural module  $V$ . Let  $H$  be a closed subgroup of  $G$  and let  $\rho$  be a nontrivial  $H$ -restricted irreducible tensor indecomposable rational  $H$ -module such that the restriction of  $\rho$  to  $H$  is irreducible. In this paper the authors classify the triples of this form, where  $H$  is a disconnected almost simple positive-dimensional closed subgroup of  $G$  acting irreducibly on  $V$ . Moreover, by combining this result with earlier work, they complete the classification of the irreducible triples where  $G$  is a simple algebraic group over  $k$ , and  $H$  is a maximal closed subgroup of positive dimension.

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