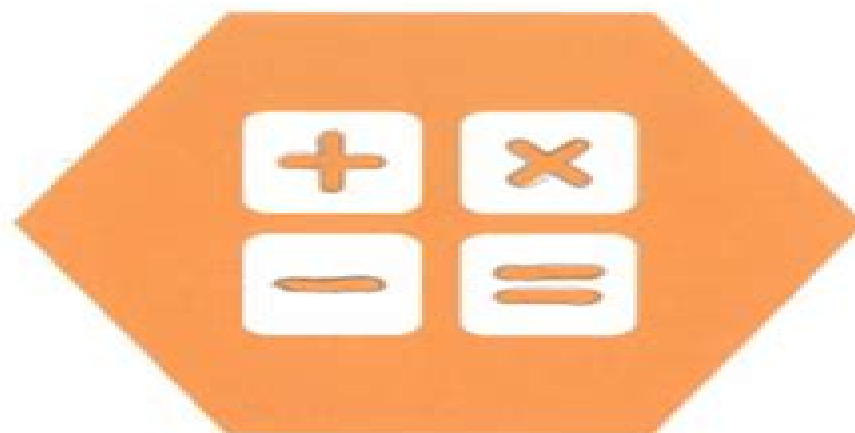




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Noncommutative Geometry and Optimal Transport Pierre Martinetti, Jean-Christophe Wallet, 2016-10-26 The distance formula in noncommutative geometry was introduced by Connes at the end of the 1980s. It is a generalization of Riemannian geodesic distance that makes sense in a noncommutative setting and provides an original tool to study the geometry of the space of states on an algebra. It also has an intriguing echo in physics for it yields a metric interpretation for the Higgs field. In the 1990s Rieffel noticed that this distance is a noncommutative version of the Wasserstein distance of order 1 in the theory of optimal transport. More exactly, this is a noncommutative generalization of Kantorovich dual formula of the Wasserstein distance. Connes distance thus offers an unexpected connection between an ancient mathematical problem and the most recent discovery in high energy physics. The meaning of this connection is far from clear. Yet Rieffel's observation suggests that Connes distance may provide an interesting starting point for a theory of optimal transport in noncommutative geometry. This volume contains several review papers that will give the reader an extensive introduction to the metric aspect of noncommutative geometry and its possible interpretation as a Wasserstein distance on a quantum space as well as several topic papers.

Virtual Fundamental Cycles in Symplectic Topology John W. Morgan, Dusa McDuff, Mohammad Tehrani, Kenji Fukaya, Dominic Joyce, 2019-04-12 The method of using the moduli space of pseudo holomorphic curves on a symplectic manifold was introduced by Mikhail Gromov in 1985. From the appearance of Gromov's original paper until today, this approach has been the most important tool in global symplectic geometry. To produce numerical invariants of these manifolds using this method requires constructing a fundamental cycle associated with moduli spaces. This volume brings together three approaches to constructing the virtual fundamental cycle for the moduli space of pseudo holomorphic curves. All approaches are based on the idea of local Kuranishi charts for the moduli space. Workers in the field will get a comprehensive understanding of the details of these constructions and the assumptions under which they can be made. These techniques and results will be essential in further applications of this approach to producing invariants of symplectic manifolds.

Nuclear Science Abstracts, 1953 *A European Politics of Education* Romuald Normand, Jean-Louis Derouet, 2016-06-10 *A European Politics of Education* proposes a sociology of education establishing connections between empirical data coming from European scale comparative surveys, normative assumptions structuring actors' representations and interpretative judgements, and a specific focus on Lifelong Learning policy areas. It invites readers to think about the place of standards, expertise and calculations in the European space from a common perspective supported by a tradition of critical sociology and European political studies. The book addresses an important agenda: how the policies and politics of supranational Europe are making a European educational space. Contains a response to the emergence of new epistemic governance and instruments at European level. Contains contributions from the EU and the UK which give a comprehensive selection of perspectives and analysis of the field as it concerns Europe. The complexity of the contemporary

European education policy space is addressed here with new lines of inquiry as well as a reflexive outlook on standardization policy making and actor engagement Students and researchers of European policy studies education policy analysts and theorists will all be particularly interested readers *Exploring the Contexts for Early Learning* Rory McDowall Clark,2016-09-01 The concept of readiness for school is attractive to policy makers but many academics researchers and practitioners argue that an early start to formal learning may be misguided This book introduces readers to an increasing body of evidence which demonstrates that young children need opportunities to learn and develop in environments that support their emotional and cognitive needs offering opportunities to develop autonomy competence and self regulation skills With advice on implementing research findings in practice this book provides clear guidance on how to foster and develop these attributes scaffold steps into new areas of learning and support children in facing new challenges Chapters cover Policy and discourses Taking account of development Approaches to Early Years Learning The Diversity of Children s Early Experiences Transitions and starting school Where to in the Future Exploring the Contexts for Early Learning will be essential reading for students practitioners policy makers and all those interested in the school readiness agenda

Operator Algebras and Their Applications Robert S. Doran,Efton Park,2016-07-28 his volume contains the proceedings of the AMS Special Session Operator Algebras and Their Applications A Tribute to Richard V Kadison held from January 10 11 2015 in San Antonio Texas Richard V Kadison has been a towering figure in the study of operator algebras for more than 65 years His research and leadership in the field have been fundamental in the development of the subject and his influence continues to be felt through his work and the work of his many students collaborators and mentees Among the topics addressed in this volume are the Kadison Kaplansky conjecture classification of C algebras connections between operator spaces and parabolic induction spectral flow C algebra actions von Neumann algebras and applications to mathematical physics Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2014 Hello World Hannah

Fry,2018-09-06 One of the best books yet written on data and algorithms deserves a place on the bestseller charts The Times You are accused of a crime Who would you rather determined your fate a human or an algorithm An algorithm is more consistent and less prone to error of judgement Yet a human can look you in the eye before passing sentence Welcome to the age of the algorithm the story of a not too distant future where machines rule supreme making important decisions in healthcare transport finance security what we watch where we go even who we send to prison So how much should we rely on them What kind of future do we want Hannah Fry takes us on a tour of the good the bad and the downright ugly of the algorithms that surround us In Hello World she lifts the lid on their inner workings demonstrates their power exposes their limitations and examines whether they really are an improvement on the humans they are replacing A BBC RADIO 4 BOOK OF THE WEEK SHORTLISTED FOR THE 2018 BAILLIE GIFFORD PRIZE AND 2018 ROYAL SOCIETY SCIENCE BOOK PRIZE

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