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Memorandum Pure Maths Paper 1 2014

Robert S. Doran, Efton Park



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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

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

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