Noncommutative Geometry and Physics 3: 1 (Keio COE Lecture Series on Mathematical Science)

Giuseppe Dito, Motoko Kotani, Yoshiaki Maeda, Hitoshi Moriyoshi, Toshikazu Natsume, Satoshi Watamura

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Noncommutative differential geometry is a novel approach to geometry, aimed in part at applications in physics. It was founded in the early eighties by the 1982 Fields Medalist Alain Connes on the basis of his fundamental works in operator algebras. It is now a very active branch of mathematics with actual and potential applications to a variety of domains in physics ranging from solid state to quantization of gravity. The strategy is to formulate usual differential geometry in a somewhat unusual manner, using in particular operator algebras and related concepts, so as to be able to plug in noncommutativity in a natural way. Algebraic tools such as K-theory and cyclic cohomology and homology play an important role in this field. It is an important topic both for mathematics and physics.

Contents:

Readership: Researchers and graduate students in Mathematical Physics and Applied Mathematics.

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