



Elements of Noncommutative Geometry (Birkhäuser Advanced Texts Basler Lehrbücher)

By Joseph C. Varilly, Hector Figueroa, Jose M. Gracia-Bondia

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Our purpose and main concern in writing this book is to illuminate classical concepts from the noncommutative viewpoint, to make the language and techniques of noncommutative geometry accessible and familiar to practitioners of classical mathematics, and to benefit physicists interested in the uses of noncommutative spaces. Some may say that ours is a very "commutative" way to deal with noncommutative matters; this charge we readily admit.

Noncommutative geometry amounts to a program of unification of mathematics under the aegis of the quantum apparatus, i.e., the theory of operators and of C^* -algebras. Largely the creation of a single person, Alain Connes, noncommutative geometry is just coming of age as the new century opens. The bible of the subject is, and will remain, Connes' *Noncommutative Geometry* (1994), itself the "3.8-fold expansion" of the French *Géométrie non commutative* (1990). These are extraordinary books, a "tapestry" of physics and mathematics, in the words of Vaughan Jones, and the work of a "poet of modern science," according to Daniel Kastler, replete with subtle knowledge and insights apt to inspire several generations.

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Review

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