

Vanderbilt University
Department of Mathematics

CLAY MATHEMATICS INSTITUTE

International Conference and Spring School on

NONCOMMUTATIVE GEOMETRY

AND

APPLICATIONS

in conjunction with

The 18th Annual SHANKS LECTURE

honoring Baylis and Olivia Shanks

featuring

Alain Connes

IHES and Collège de France

Friday, May 2 to Tuesday, May 13, 2003



MINI-COURSES:

The meeting will feature a lecture series by Alain Connes and several mini-courses by leading experts in noncommutative geometry and its applications to physics and geometry.

Alain Connes, IHES & Collège de France, Shanks Lecturer
Noncommutative Geometry and Applications

Jean Bellissard
Georgia Institute of Technology
The Noncommutative Geometry of Aperiodic Solids

Joachim Cuntz
University of Münster
Cyclic Homology and the Bivariant Chern-Connes Character

Nigel Higson
Pennsylvania State University
The Local Index Formula in Noncommutative Geometry

Gennadi Kasparov
Vanderbilt University
Introduction to Bivariant K-theory

Anatoly Konechny
Hebrew University
Some Applications of Noncommutative Geometry to M-theory

Henri Moscovici
Ohio State University
Symmetry in Transverse Geometry

Mihai Pimsner
University of Pennsylvania
Introduction to K-theory for Operator Algebras

Marc Rieffel
University of California, Berkeley
Introduction to Noncommutative Differential Geometry

Joseph Várilly
Universidad de Costa Rica
Some Applications of Noncommutative Geometry to Physics

Organizing Committee: Dietmar Bisch, David Ellwood, Bruce Hughes, Gennadi Kasparov and Guoliang Yu

ADDITIONAL INFORMATION

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