

VANDERBILT UNIVERSITY

Department of Mathematics • Nashville, Tennessee, USA

THE THIRD ANNUAL SPRING INSTITUTE ON

Noncommutative  
Geometry AND

Operator Algebras

in conjunction with The 20th Annual

SHANKS LECTURE

honoring Baylis and Olivia Shanks

featuring

Vaughan Jones UC Berkeley

Monday, May 9 to Friday, May 20, 2005

#### MINI-COURSES:

**Claire Anantharaman-Delaroche**

Université d'Orléans

*Correspondences and Type  $II_1$  Factors*

**Alain Connes**

Collège de France, IHES, and Vanderbilt University

*Von Neumann Algebras and Noncommutative Geometry*

**Uffe Haagerup**

University of Southern Denmark (Odense)

*Invariant Subspaces for Operators in  $II_1$  Factors*

**Vaughan Jones**

UC Berkeley

*Planar Algebras and Subfactors*

**Narutaka Ozawa**

University of Tokyo and UCLA

*Hyperbolic Groups and Type  $II_1$  Factors*

**Sorin Popa**

UCLA

*Deformation and Rigidity Techniques in the Classification of  $II_1$  Factors*

**Dimitri Shlyakhtenko**

UCLA

*Free Probability and  $L^2$ -Invariants in Operator Algebras*

**Dan Voiculescu**

UC Berkeley

*Topics in Free Probability Theory*

**Feng Xu**

UC Riverside

*The Standard Invariant of a Subfactor*

#### ADDITIONAL TALKS:

**Teodor Banica**, Université Paul Sabatier (Toulouse)

**Florin Boca**, University of Illinois at Urbana-Champaign

**Ken Dykema**, Texas A&M University

**David Evans**, Cardiff University

**Alex Furman**, University of Illinois at Chicago

**Pinhas Grossman**, UC Berkeley

**Shamindra Ghosh**, University of New Hampshire

**Kenley Jung**, UCLA

**Yasuyuki Kawahigashi**, University of Tokyo

**Dirk Kreimer**, IHES and Boston University

**Zeph Landau**, City College of New York

**Roberto Longo**, University of Rome Tor Vergata (Rome 2)

**Wolfgang Lück**, Universität Münster

**Matilde Marcolli**, Max-Planck-Institute Bonn

**Sergey Neshveyev**, University of Oslo

**Adrian Ocneanu**, Penn State University

**Jesse Peterson**, UCLA

**Hanne Schultz**, University of Southern Denmark

**Roland Speicher**, Queen's University

**Alain Valette**, Université de Neuchâtel

**Zhenghan Wang**, Indiana University

**Antony Wassermann**, CNRS, Marseille

#### ADDITIONAL INFORMATION:

**Director:** Alain Connes

**Organizers:** Dietmar Bisch, Bruce Hughes, Gennadi Kasparov, and Guoliang Yu

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Financial support provided by a National Science Foundation RTG grant, Shanks Foundation, and Vanderbilt University

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