慶應義塾大学 21世紀COEプログラム
「統合数理科学：現象解明を通した数学の発展」

Integrative Mathematical Sciences 統合数理科学

Keio University 1858 CALAMVS GLADIO FORTIOR

Pathways Lecture Series in Mathematics, KEIO

Speaker : Prof. Paolo Piazza
(Università di Roma)

Place : Discussion Room 6 (14-216)
2nd Floor, Building 14
Yagami Campus, Keio University

Lecture 1 16:30 ～ 18:00 April 19, 2007 (Thursday)

Lecture 2 16:30 ～ 18:00 April 20, 2007 (Friday)

Equivariant fibrations: from index theory to rho-invariants

For a Dirac operator on a compact manifold without boundary one can consider the index, the eta invariant and the Atiyah-Patodi-Singer rho invariant. In these lectures I will first explain how these three invariants can be extended to geometrically more complex situations: fibrations; Gamma-coverings, with Gamma a discrete group; Gamma-equivariant fibrations. I will then concentrate on rho invariants and explain why they are interesting, intriguing and often geometrically useful.
The new results I shall present have been obtained in collaborations with Thomas Schick and with Moulay Benameur.

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