Pathways Lecture Series in Mathematics, KEIO

Speaker:

Prof. Louis Boutet de Monvel
(Université Paris VI)

Lecture 1 16:30 – 18:00 October 25, 2007 (Thursday)
Place: 14-203 (Seminar Room 3), 2nd Floor, Bldg.14, Yagami Campus, KEIO Univ.

Lecture 2 16:00 – 17:00 October 26, 2007 (Friday)
Place: 14-513/514 (Discussion Space 53/54), 5th Floor, Bldg.14, Yagami Campus, KEIO Univ.

Lecture 3 16:00 – 17:00 October 27, 2007 (Saturday)
Place: 14-513/514 (Discussion Space 53/54), 5th Floor, Bldg.14, Yagami Campus, KEIO Univ.

Star algebras and Toeplitz operators, residual trace and equivariant index

We will recall the definition of star-algebras and Toeplitz operators, and the canonical residual trace on these extending that of M. Wodzicki. In presence of a compact group action, one can define the asymptotic G-trace or index of Toeplitz, operators, which plays a similar role as the residual trace in a more general setting. This was used to give a neat proof of the Atiyah-Weinstein conjecture.

（Lecture1 は、入門的な概説です。Lecture2 から聴講することも可能です。）

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