

第16回

- 講演者：古谷 賢朗 氏（東京理科大）
 - 題目 □ Isospectral, but non-diffeomorphic nilmanifolds attached to Clifford modules
 - 日時：平成27年2月26日（木）16:30 – 17:30

The problem asked by Mark Kac in the paper “Can one hear the shape of a drum?” (1966) will be well-known widely as an initiation of spectral geometry and analysis (after Hermann Weyl?). Since then, many counterexamples are found or constructed.

In this talk I will give a new example of infinite series of pairs of such manifolds, isospectral but non-diffeomorphic. They are constructed by making use of Clifford algebras with respect to quadratic forms with arbitrary signatures and their modules.

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