

General Mathematics Seminar
of the
University of Luxembourg
in cooperation with the
Luxembourg Mathematical Society

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Tuesday, October 21, 2014 at 17.00

Campus Kirchberg, Room B02

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Lax operator algebras and integrable systems

Abstract: In my talk I shall tell how the theory of semi-simple Lie algebras and the theory of holomorphic vector bundles on Riemann surfaces met in the field of integrable systems, and had resulted in a new class of infinite-dimensional algebras - the Lax operator algebras. Based on those, I will give a quite general formulation of existence and Hamiltonianity of commuting hierarchies of finite-dimensional Lax equations.