

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

June, 2014

Tuesday, June 10, 2014 at 17.00

Campus Kirchberg, Room B02

Prof. Camille Laurent–Gengoux
(Université de Lorraine)

Atiyah classes for Lie algebroid pairs

Abstract: We shall explain why there is a Kapranov-dg manifolds (i.e. some particular kind L-infinity algebra) associated to any Lie algebroid inclusion. These Kapranovdg-manifolds are encoded by a class of cohomology called the Atiyah class. We shall explain the meaning of this Kapranov dg-manifold in terms of “non-linearizability”, and give examples. This is a joint work with Stienon, Xu and Voglaire.

General Mathematics Seminar
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June, 2014

Tuesday, June 24, 2014 at 17.00

Campus Kirchberg, Room B02

Prof. Riccardo Adami
(Polytechnic University of Turin)

Ground States for the Nonlinear Schrödinger Equation on graphs: to be or not to be?

Abstract: Nonlinear Schrödinger equation on networks or ramified structures is a fast growing subject with several applications. We give the basic notions and discuss a recent result that links the existence of a ground state to the presence of “bottlenecks” in the network. This is a joint work with E. Serra and P. Tilli.