ABSTRACT FIRST ANTIPODE WORKSHOP 2018

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The gauge group of a Hopf-Galois extension and twist deformations
Abstract: A principal bundle over a noncommutative space is given by an H-Galois extension, with the Hopf algebra H playing the role of the structure group of the bundle. In this talk I will review some aspects of a general theory of Drinfeld twist deformation quantization of Hopf-Galois extensions and present recent results on the study of the group of gauge transformations in this noncommutative algebraic setting.