

Sergey NESHVEYEV

University of Oslo, Norway – Fondation Sciences Mathématiques de Paris

sergeyn@math.uio.no

Quantum groups as spin manifolds.

I will explain how the q -deformation of a compact Lie group can be given a canonical structure of a spin manifold in the sense of Connes. The construction is based on a refinement of the equivalence of the Drinfeld category and a category of modules over the quantized universal enveloping algebra, and on properties of Drinfeld's KZ-associator. (Joint work with Lars Tuset.)