

Abstract from Benjamin Enriquez

Title : *Quantization of quasi-Lie bialgebras*

Abstract: quasi-Lie bialgebras are the classical limits of quasi-Hopf QUE algebras, i.e. those quasi-Hopf algebras which are deformations of universal enveloping algebras. These objects were introduced by Drinfeld in 1991, who also posed the problem of quantization of quasi-Lie bialgebras. We will review our recent solution of this problem (joint with G. Halbout).

We show that the natural map {quantization functors for Lie quasi-bialgebras} \rightarrow {q.f. for Lie bialgebras} is a bijection, and then use Etingof and Kazhdan's proof of existence of quantization functors for Lie bialgebras. Our proof of the bijectivity relies on comparison of cohomology groups in suitable props.