
IVAN KOBYZEV, University of Waterloo

Cyclic homology of quasi-Hopf algebras and Hopf algebroids

Using the categorical approach, it is possible to understand the coefficients of Hopf cyclic (co)homology theories (anti-Yetter-Drinfeld modules and contramodules) as centers of some categories. In the talk I will use this idea to describe aYD (contra)modules for quasi-Hopf algebras and Hopf algebroids. Unlike the case of Hopf algebras, some of these formulas would be hard to guess without this approach. The talk is based on the joint work with I. Shapiro.