José Gómez-Torrecillas

September, 5th. 2017

Contact: gomezj@ugr.es, Dept. of Algebra and CITIC. Universidad de Granada

Abstract: We will discuss the role played by a technical condition, formulated in terms of modules, when the categorical construction of the finite dual of a bialgebroid rooted in [1] and [2] is intended to be understood in simpler terms. Some equivalences between categories of modules and comodules will be also derived beyond the abelian case. The talk is based in a collaboration with L. El Kaoutit, [3].

Research supported by the grant MTM2013-41992-P from Spanish government and FEDER.

References

- A. Bruguières. Théorie tannakienne non commutative. Commun. in Algebra 22, 5817–5860 (1994).
- [2] P. Deligne. Catégories tannakiennes. In *The Grothendieck Festschrift* (P. Cartier et al., eds), Progr. math., 87, vol. II, Birkhäuser, Boston, MA. 1990, pp. 111–195.
- [3] L. El Kaoutit and J. Gómez-Torrecillas. Finite dual of a cocommutative Hopf algebroid. arXiv preprint arXiv:1607.07633