

Compact coalgebras, daggers and Tannakian reconstruction

Walter Ferrer Santos (University of the Republic, Uruguay)
wrferrer@gmail.com

From the viewpoint of Tannakian reconstruction, and with the idea of understanding the reconstruction of compact quantum groups we consider the simple case of coalgebras. We consider the concept of compactness for \mathcal{o} -coalgebras and characterize the notion of compactness in terms of the extension of the dagger functor from $Vect$ to the category of C -comodules.

This is joint work with Ignacio López Franco (University of Cambridge, England).