
SERBAN RAIANU, California State University, Dominguez Hills

The antipode of a co-Frobenius dual quasi-Hopf algebra is bijective

For a co-Frobenius Hopf algebra of arbitrary dimension over a field, it is well-known that the space of integrals is one-dimensional and the antipode is bijective. Daniel Bulacu and Stefaan Caenepeel recently showed that for a dual quasi-Hopf algebra with nonzero integrals the space of integrals is one-dimensional, and the antipode is injective. We prove that the antipode is bijective.

This is joint work with Margaret Beattie and Miodrag Iovanov.