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*Cup products in Hopf cyclic cohomology*

We define coproducts for Hopf cyclic cohomology of cocommutative Hopf algebras. In the periodic case, we show that this coproduct agrees with the coproduct of Lie algebra homology. We also introduce coproducts for dual Hopf cyclic cohomology of cocommutative Hopf algebras. At the end we introduce a graded commutative and associative algebra structure on dual Hopf cyclic cohomology of commutative Hopf algebras.

This is joint work with Masoud Khalkhali.