

TWISTED HOMOLOGY OF QUANTUM $SL(2)$

Ulrich Kraehmer

Humboldt-Universitaet zu Berlin

The twisted Hochschild and cyclic homology (in the sense of Kustermans, Murphy and Tuset) is computed for quantum $SL(2)$. It turns out that there is a family of twisting automorphisms for which the twisted Hochschild dimension equals the classical value 3. The simplest member of this family is the modular automorphism of the Haar functional of quantum $SL(2)$.