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HOPF ALGEBRAS WITH NON-ZERO INTEGRALS, PATH SUBCOALGEBRAS AND QUANTUM GROUPS

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Abstract

Hopf algebras with non-zero integrals generalize the algebra of representative functions $R(G)$ on a compact group G . We present a coalgebraic point of view on these objects leading to short proofs for the uniqueness of the integral. We explain how large classes of Hopf algebras with non-zero integrals can be constructed: 1) by iterated Ore extensions producing liftings of quantum linear spaces; 2) from certain subcoalgebras of path coalgebras which are co-Frobenius.

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Time: 11:00

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