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Title: On Inner actions of weak Hopf algebras

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Abstract: Let R be an associative ring and e, f idempotent elements of R . In this talk we discuss about the notion of (e, f) -invertibility for an element of R and use it to define inner actions of weak Hopf algebras. Given a weak Hopf algebra H and an algebra A , we present sufficient conditions for A to admit an inner action of H . We also prove that if A is a left H -module algebra then H acts innerly on the smash product $A\#H$ if and only if H is a quantum commutative weak Hopf algebra.