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REPRESENTATIONS OF THE DRINFELD DOUBLE OF RADFORD'S ALGEBRAS

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Tipo de Atividade: Palestra

Carga horária: 1h 30min.

Público-alvo: Alunos de graduação em matemática e alunos de pós-graduação.

Resumo: In this work, we consider the Drinfeld double $D(R_{n,p})$ of a n^2 -dimensional Hopf algebra $R_{n,p}$ over an algebraically closed field of characteristic zero whose coradical is not a subalgebra and describe its simple modules. The algebra Rn,p was studied by Radford as an example of a noncommutative noncocommutative Hopf algebra whose Jacobson radical is not a Hopf ideal and with injective antipode. We describe $D(R_{n,p})$ by generators and relations and study the simple representation of D in order to describe the structure of Yetter Drinfield modules over . The case n = p = 2 was studied by Garcia and Giraldi, so this work pontied to generalize their results

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