

QCHARACTERS AND TENSOR PRODUCTS OF KIRILLOV-RESHETIHIN MODULES

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Abstract: We present a discussion about q characters of some special classes of finite-dimensional representations of quantum affine algebras and how to use this tool for obtaining informations about tensor products. In particular, for a quantum affine algebra of type D , we study the tensor product of two Kirillov-Reshetihin modules associated to spin nodes. We give a precise characterization for when such tensor product is irreducible and give some extra informations in the reducible case.