

INVARIANTS OF FUSION ALGEBRAS OF COMPACT QUANTUM GROUPS

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Representation theory of compact quantum groups closely resembles its classical counterpart. Classes of finite dimensional representations, together with the operations of taking tensor product, direct sum, contragredient representation and a choice of dimension function, form an algebraic data called the fusion algebra. Typically it is much easier to study than the quantum group itself, but nonetheless carry interesting information. I will report on a joint work with Adam Skalski, in which we study certain asymptotic invariants of fusion algebras: Folner constant (describing the level of non-amenability) and uniform growth rate.

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