

Unique factorization of tensor products for finite-dimensional simple Lie algebras

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Suppose V is a finite dimensional representation of a complex finite dimensional simple Lie algebra that can be written as a tensor product of irreducible representations. A theorem of C.S. Rajan states that the non-trivial irreducible factors that occur in the tensor product factorization of V are uniquely determined, up to reordering, by the isomorphism class of V . I will present an elementary proof of Rajan's theorem. This is a joint work with S.Viswanath.