Gaudin Hamiltonians on unitarizable modules over classical Lie (super)algebras

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Abstract

I will describe a one-to-one correspondence between the sets of eigenvectors of the Gaudin Hamiltonians for infinite-rank classical Lie (super)algebras of types a, c, d and those for the corresponding Lie algebras. I will also study the Gaudin Hamiltonians on unitarizable modules over finite-rank classical Lie (super)algebras of types a, c, d. This talk is based on joint work with Ngau Lam.