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Exact overlaps for integrable boundary states of gl(N) symmetric spin chains.

In recent years, there has been growing interest (both in statistical physics and in the AdS/CFT duality) in exact overlaps between boundary and Bethe states. Combining the algebraic Bethe Ansatz with the KT-relation (which is the defining equation of the integrable boundary states), a sum rule of off-shell overlaps can be derived. This sum rule is sufficient to express the on-shell overlaps in a determinant form. The results can be extended to the so-called integrable matrix product states.

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