ABSTRACT: The Bethe eigenvectors of the Gaudin model associated with a tensor product of representations of a Lie algebra are constructed using critical points of the associated master function.

The (\(\mathfrak{gl}_n, \mathfrak{gl}_k\))–duality provides a situation in which the Gaudin model associated with a tensor product of \(k\) representations of \(\mathfrak{gl}_n\) is isomorphic to the Gaudin model associated with a tensor product of \(n\) representations of \(\mathfrak{gl}_k\). In this situation one must expect a correspondence between the critical points of the two associated master functions.

I will explain this correspondence.

3:00 - 3:50 pm

Faculty and Students are invited to attend.