

# Affine Gaudin Bethe Ansatz and the ODE/IM correspondence

*Monday, June 3, 2024 11:00 AM (50 minutes)*

We consider the monodromy-freeopers corresponding to solutions of the Affine Gaudin Bethe Ansatz equations.

We define and study the spectral determinants (called  $Q$  functions) for theseopers. We conjecture that the  $Q$ -functions obtained from the Affine Gaudin Bethe Ansatz coincide with the  $Q$ -functions of the Bazhanov-Lukyanov-Zamolodchikovopers with the monster potential, which are related to the quantum KdV flows according to the ODE/IM correspondence. We give supporting evidence for this conjecture.

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