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Title:

Gaudin models, Cherednik algebras and Calogero-Moser spaces.

Abstract:

The goal of the talk is to identify the Bethe algebra of the \mathfrak{gl}_N Gaudin model acting on a suitable representation with the center of the rational Cherednik algebra $H_{\{0,1\}}(S_N)$ and with the algebra of functions on the Calogero-Moser space C_N .