

# Asymptotic properties of the partition function for the Gaudin spin model

M. Min-Oo

*Department of Mathematics and Statistics*

*McMaster University*

*1280 Main Street W.*

*Hamilton ON L8S 4K1, Canada*

## **Abstract**

After a brief introduction to the Gaudin spin model as a quantum integrable system, we will describe some thermodynamic properties (in the large  $N$  limit) of the partition function associated to the Bethe–Ansatz equation.