

On the high-spin integrable quantum gas models

Yupeng Wang

Institute of Physics, Chinese Academy of Sciences, Beijing
P.O.Box 603, Beijing 100190
Beijing, China

The high-spin quantum gas models have important applications in cold atoms. In this talk, a new class of high-spin integrable quantum gas models beyond the Lieb-Liniger-Gaudin-Yang-Sutherland quantum gas models will be introduced. The ground state and elementary excitations will also be discussed.