

Elliptic Gaudin-type model in an external magnetic field and modified algebraic Bethe ansatz

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We will consider elliptic Gaudin-type model in an external magnetic field associated with non-skew-symmetric elliptic r -matrix. We will discuss a modified algebraic Bethe ansatz for the considered elliptic r -matrix and obtain the spectra of the corresponding Gaudin-type Hamiltonians in terms of solutions of modified Bethe equations. The applications of the obtained result to the diagonalization of the anisotropic quantum Euler top, quantum Zhukovsky-Volterra top, quantum Steklov and Rubanovsky tops will be given.

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