

This is a review text file submitted electronically to MR.

Reviewer: Znojil, M.

Reviewer number: 13388

Address:

Theory Group
NPI ASCR
250 68 Řež u Prahy
CZECH REPUBLIC
znojil@ujf.cas.cz

Author: Gadella, M.; Negro, J.; Nieto, L. M.; Pronko, G. P.

Short title: Two charged particles in the plane under a constant perpendicular magnetic field.

MR Number: 2810758

Primary classification: 81R12

Secondary classification(s): 35Q40 37J35 35J10

Review text:

In a continuation of the series of papers on integrable systems where, in 2007, the characteristic function and the motion were separated in spheroidal coordinates while, in 2008, elliptic coordinates took the role, the authors describe now a system which, in the classical case, appears to separate in oblate coordinates. Remarkably enough, they obtain the pair of hyperbolic and trigonometric four-term-Hill equations in quantum case.