Nonlinear Sciences > Exactly Solvable and Integrable Systems

Integrable Euler top and nonholonomic Chaplygin ball

A V Tsiganov

(Submitted on 5 Feb 2010)

We discuss the Poisson structures, Lax matrices, \$r\$-matrices, bihamiltonian structures, the variables of separation and other attributes of the modern theory of dynamical systems in application to the integrable Euler top and to the nonholonomic Chaplygin ball.

Comments: 22 pages, LaTeX with AMS fonts

Subjects: **Exactly Solvable and Integrable Systems (nlin.Sl)**; Mathematical Physics (math-ph); Dynamical Systems (math.DS); Classical Physics (physics.class-ph)

Cite as: arXiv:1002.1123v1 [nlin.SI]

Submission history

From: Andrey Tsiganov [view email] [v1] Fri, 5 Feb 2010 05:30:25 GMT (22kb)

Which authors of this paper are endorsers?

Download:

- PDF
- PostScript
- Other formats

Current browse context: nlin.SI < prev | next > new | recent | 1002

Change to browse by:

math math-ph math.DS nlin physics physics.class-ph

References & Citations

• CiteBase



Link back to: arXiv, form interface, contact.