Nonlinear Sciences > Exactly Solvable and Integrable Systems

On the generalized integrable Chaplygin system

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We discuss two polynomial bi-Hamiltonian structures for the generalized integrable Chaplygin system on the sphere S^2 with an additional integral of fourth order in momenta. An explicit procedure to find the variables of separation, the separation relations and the transformation of the corresponding algebraic curves of genus two is considered in detail.

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