



Bi-Hamiltonian ordinary differential equations with matrix variables

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Auteur	Odesskii, Alexander [1], Roubtsov, Vladimir [2], Sokolov, Vladimir [3]
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Résumé en anglais	We consider a special class of Poisson brackets related to systems of ordinary differential equations with matrix variables. We investigate general properties of such brackets, present an example of a compatible pair of quadratic and linear brackets, and find the corresponding hierarchy of integrable models, which generalizes the two-component Manakov matrix system to the case of an arbitrary number of matrices.
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Liens

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- [3] [http://okina.univ-angers.fr/publications?f\[author\]=397](http://okina.univ-angers.fr/publications?f[author]=397)
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