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*Integrable Quadratic Hamiltonians on  $so(4)$  and  $so(3,1)$*

In the talk a special class of quadratic Hamiltonians on  $so(4)$  and  $so(3,1)$  is discussed. Results include a Hamiltonian with a 6-th degree first integral and a superintegrable Hamiltonian together with inhomogeneous generalizations.

This work was done in collaboration with Vladimir Sokolov.

If time permits, a vector formalism will be introduced which allows us to reach the same results more efficiently.