

1023-53-1024

Roman G. Smirnov*, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS B3H 3J5, Canada, and **Pavel Winternitz**. *A class of superintegrable systems of Calogero-Moser type.*

We employ the underlying ideas of the Cartan geometry to show that the three-body Calogero-Moser model with inverse square potentials can be interpreted as a maximally superintegrable system in Euclidean space. As such it is a special case of a family of systems involving one arbitrary function of one variable. This is joint work with Pavel Winternitz. (Received September 24, 2006)