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**The Lie algebra of Wigner operators  
of angular momentum**

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*Abstract*

In this paper we study the Wigner operators of angular momentum in the phase space, which are obtained from the well - known operators of angular momentum by virtue of Wigner representation. We construct the Lie algebra of these operators, as well as the corresponding Lie group, and we examine two representations of this group. We find also the eigenfunction and the eigenvalues of these operators.