Gotay, Mark J. (1-HI)

On quantizing nonnilpotent coadjoint orbits of semisimple Lie groups. (English summary)


In this paper the author proves that if \( M \) is a non-nilpotent coadjoint orbit in the dual space \( b^* \) of a finite-dimensional Lie algebra \( b \) then there are no polynomial quantizations of the coordinate ring \( P(M) \). This is a generalization of the author’s result for \( \text{sl}(2, \mathbb{R}) \) [in Geometry, mechanics, and dynamics, 523–536, Springer, New York, 2002; MR1919840 (2003i:53130)].

Reviewed by Sei-Qwon Oh

References


Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

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