

**Karabegov, A. V.**

**Strict deformation quantization on a pseudo-Kähler orbit of a compact Lie group.** (English. Russian original) [Zbl 0932.37071](#)  
*Funct. Anal. Appl.* 32, No. 1, 51-53 (1998); translation from *Funkts. Anal. Prilozh.* 32, No. 1, 66-68 (1998).

Results of previous works are used to construct a strict deformation quantization on an orbit of a compact semisimple Lie group for the case the orbit is endowed with a given invariant pseudo-Kähler polarization. Deformation quantization on arbitrary Kähler manifolds is generalized to pseudo-Kähler manifolds.

Reviewer: [Samir Musayev \(Baku\)](#)

**MSC:**

- [37N20](#) Dynamical systems in other branches of physics (quantum mechanics, general relativity, laser physics)
- [81S10](#) Geometry and quantization, symplectic methods
- [53D50](#) Geometric quantization
- [22E47](#) Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.)

Cited in **1** Document

**Keywords:**

deformation quantization; compact semisimple Lie group; pseudo-Kähler manifolds

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**References:**

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