

Karabegov, A. V.

Cohomological classification of deformation quantizations with separation of variables. (English) [Zbl 0938.53049](#)

Lett. Math. Phys. 43, No. 4, 347-357 (1998).

A second cohomology class for the deformation quantization with separation of variables on a Kähler manifold has been calculated. It turns out that for deformation quantizations with separation of variables A and \bar{A} the calculation of the Deligne classes $[\bar{A}, A]$ is rather straightforward. The definition of a specific class cl based on Deligne's classes is given and then $cl(A)$ is calculated.

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

MSC:

- [53D55](#) Deformation quantization, star products
- [81S10](#) Geometry and quantization, symplectic methods
- [37N20](#) Dynamical systems in other branches of physics (quantum mechanics, general relativity, laser physics)

Cited in **3** Reviews
Cited in **15** Documents

Keywords:

[Kähler manifolds](#); [geometric quantization](#); [quantum fluctuations](#)

Full Text: [DOI](#)