

Karabegov, A. V.

Construction of the canonical trace density of a deformation quantization with separation of variables. (English. Russian original) [Zbl 0935.53038](#)

Funct. Anal. Appl. 32, No. 4, 286-288 (1998); translation from *Funkts. Anal. Prilozh.* 32, No. 4, 85-87 (1998).

Summary: In this note, we present an explicit construction of the canonical trace density [*B. V. Fedosov*, *J. Differ. Geom.* 40, 213-238 (1994; [Zbl 0812.53034](#))] for the deformation quantization with separation of variables (which was introduced by *A. V. Karabegov* [*Commun. Math. Phys.* 180, 745-755 (1996; [Zbl 0866.58037](#))]) on a pseudo-Kähler manifold.

MSC:

53D55 Deformation quantization, star products

81S10 Geometry and quantization, symplectic methods

53C55 Global differential geometry of Hermitian and Kählerian manifolds

Keywords:

deformation quantization; pseudo-Kähler manifold

Full Text: [DOI](#)

References:

- [1] B. V. Fedosov, *J. Diff. Geom.*,40, 213–238 (1994).
- [2] A. V. Karabegov, *Commun. Math. Phys.*,180, 745–755 (1996). · [Zbl 0866.58037](#) · [doi:10.1007/BF02099631](#)
- [3] F. Bayen, M. Flato, C. Fronsdal, A. Lichnerovich, and D. Sternheimer, *Ann. Phys.*,111, 61–151 (1978). · [Zbl 0377.53024](#) · [doi:10.1016/0003-4916\(78\)90224-5](#)
- [4] C. Moreno, *Lett. Math. Phys.*,11, 361–372 (1986). · [Zbl 0618.53049](#) · [doi:10.1007/BF00574162](#)
- [5] C. Moreno, *Lett. Math. Phys.*,12, 217–229 (1986). · [Zbl 0681.53036](#) · [doi:10.1007/BF00416512](#)
- [6] M. Cahen, S. Gutt, and J. Rawnsley, *Trans. Amer. Math. Soc.*,337, 73–98 (1993). · [Zbl 0788.53062](#) · [doi:10.2307/2154310](#)
- [7] M. Cahen, S. Gutt, and J. Rawnsley, *Lett. Math. Phys.*,34, 159–168 (1995). · [Zbl 0831.58026](#) · [doi:10.1007/BF00739094](#)
- [8] F. A. Berezin, *Dokl. Akad. Nauk USSR*,241, No. 1, 15–17 (1978).
- [9] A. V. Krabegov *Lett. Math. Phys.*,43, 347–357 (1998). · [Zbl 0938.53049](#) · [doi:10.1023/A:1007492515449](#)

This reference list is based on information provided by the publisher or from digital mathematics libraries. Its items are heuristically matched to zbMATH identifiers and may contain data conversion errors. It attempts to reflect the references listed in the original paper as accurately as possible without claiming the completeness or perfect precision of the matching.