

**Waldmann, Stefan****Positivity in Rieffel's strict deformation quantization.** (English) Zbl 1203.81086

Exner, Pavel (ed.), XVIth international congress on mathematical physics, Prague, Czech Republic, August 3–8, 2009. With DVD. Hackensack, NJ: World Scientific (ISBN 978-981-4304-62-7/hbk). 509-513 (2010).

Summary: We review a recent result on Rieffel's deformation quantization by actions of  $\mathbb{R}^d$ : it is shown that for every state  $\omega_0$  of the undeformed  $C^*$ -algebra there is a continuous section of states  $\omega(\hbar)$  through  $\omega_0$ . We outline the physical interpretation in terms of quantization.

For the entire collection see [\[Zbl 1192.00040\]](#).

**MSC:**

- [81S10](#) Geometry and quantization, symplectic methods
- [53D55](#) Deformation quantization, star products
- [46L60](#) Applications of selfadjoint operator algebras to physics

Cited in **1** Document**Keywords:**

[Rieffel deformation quantization](#); [positive deformation](#)

**Full Text:** [arXiv](#)