

**Beiser, Svea; Waldmann, Stefan**

**Fréchet algebraic deformation quantization.** (English) [Zbl 1290.53079](#)

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This work constructs a star product on the Poincaré disk in order to produce a Fréchet topology making the star product continuous. First, two constructions are proposed. Several basic examples are discussed to illustrate the general construction. The example of the Poincaré disk is then studied in details. In this example, the properties of the corresponding Fréchet algebra are studied. The basic properties of the Poincaré disk and all the relevant classical results are also recalled in the paper.

Reviewer: Angela Gammella-Mathieu (Metz)

**MSC:**

[53D55](#) Deformation quantization, star products

[81T70](#) Quantization in field theory; cohomological methods

Cited in **5** Documents

**Keywords:**

deformation quantization; Fréchet topology; Poincaré disk, star product

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