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On the local structure of quantizations in characteristic p. (English) [Zbl 1430.16032]

Summary: Let \( A \) be a central quantization of an affine Poisson variety \( X \) over a field of characteristic \( p > 0 \). We show that the completion of \( A \) with respect to a closed point \( y \in X \) is isomorphic to the tensor product of the Weyl algebra with a local Poisson algebra. This result can be thought of as a positive characteristic analogue of results of Losev and Kaledin about slice algebras of quantizations in characteristic 0.

MSC:
16S80 Deformations of associative rings
16W70 Filtered associative rings; filtrational and graded techniques
17B63 Poisson algebras

Keywords:
central quantization; affine Poisson variety; tensor product of Weyl algebra; local Poisson algebra

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References:

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