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**Weyl manifolds and deformation quantization.** (English) Zbl 0734.58011

*Adv. Math.* 85, No. 2, 224-255 (1991).

This paper deals with non-commutative objects based on the Weyl algebra from a differential geometric viewpoint. The main result of this paper is the statement that over any symplectic manifold there exists a Weyl manifold. This theorem then leads to the further result that any symplectic manifold is deformation quantizable.

Reviewer: [A.P.Stone \(Albuquerque\)](#)

**MSC:**

[46L85](#) Noncommutative topology

[46L87](#) Noncommutative differential geometry

[53C15](#) General geometric structures on manifolds (almost complex, almost product structures, etc.)

Cited in **4** Reviews  
Cited in **67** Documents

**Keywords:**

[deformation quantization](#); [symplectic manifold](#); [Weyl manifold](#)

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**References:**

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