

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">A. AlekseevE. Meinrenken	authors	<ul style="list-style-type: none">Alekseev, A.Meinrenken, E.	DUPLICATES	29
	title	Dirac Structures and Dixmier–Douady Bundles	title	Dirac structures and Dixmier-Douady bundles		
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	urls	<ul style="list-style-type: none">https://web.archive.org/web/20170809085212/http://www.math.toronto.edu/~mein/research/spinnew.pdf	urls	<ul style="list-style-type: none">http://arxiv.org/abs/0907.1257		
	id	id8260686536654499477	id	id-2973104041119410594		
	abstract	A Dirac structure on a vector bundle V is a maximal isotropic subbundle E of the direct sum $V \hat{\otimes} V^*$. We show how to associate to any Dirac structure a Dixmier-Douady bundle AE , that is, a \mathbb{Z}^2 -graded bundle of C^* -algebras with typical fiber the compact operators on a Hilbert space. The construction has good functorial properties, relative to Morita morphisms of Dixmier-Douady bundles. As applications, we show that the Dixmier-Douady bundle $A \operatorname{Spin} G \hat{+} G$ over a compact, connected Lie group (as constructed by Atiyah-Segal) is multiplicative, and we obtain a canonical 'twisted $\operatorname{Spin} c$ -structure' on spaces with group valued moment maps. Dedicated to Richard Melrose on the occasion of his 60th birthday.	abstract	A Dirac structure on a vector bundle V is a maximal isotropic subbundle E of the direct sum of V with its dual. We show how to associate to any Dirac structure a Dixmier-Douady bundle A , that is, a $\mathbb{Z}/2\mathbb{Z}$ -graded bundle of C^* -algebras with typical fiber the compact operators on a Hilbert space. The construction has good functorial properties, relative to Morita morphisms of Dixmier-Douady bundles. As applications, we show that the 'spin' Dixmier-Douady bundle over a compact, connected Lie group (as constructed by Atiyah-Segal) is multiplicative, and we obtain a canonical 'twisted $\operatorname{Spin} c$ -structure' on spaces with group valued moment maps.Comment: 41 page		
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